

The Hon'ble Dr. Nawab Sir Hydar Nawaz Jung Bar. L.L.D.

with respectful regards.

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OSMANIA UNIVERSITY, HYDERABAD.  
PUBLICATIONS OF THE NIZAMIAH OBSERVATORY.

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ASTROGRAPHIC CATALOGUE

1900·0.

HYDERABAD SECTION  
(PART II.)

DEC.  $-20^{\circ}$  to  $-24^{\circ}$ .

FROM PHOTOGRAPHS TAKEN AND MEASURED AT THE NIZAMIAH  
OBSERVATORY, HYDERABAD.

UNDER THE DIRECTION OF  
T. P. BHASKARAN, M.A., F.R.A.S.

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VOL. VI.

MEASURES OF RECTANGULAR CO-ORDINATES  
AND DIAMETERS OF 81,821 STAR-IMAGES

ON PLATES WITH CENTRES IN

DEC.  $-22^{\circ}$ .



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# INDEX.

	PAGE		PAGE
INTRODUCTION . . . . .	iii	VIII. DETERMINATION OF STANDARD CO-ORDINATES FROM R.A. AND DECLINATION, AND VICE VERSA—	
I. GENERAL—		Formulæ for obtaining $\eta$ from X and Y . . . . .	xiii
Reference to History of the Hyderabad Zones . . . . .	iii	Formulæ for obtaining $\xi$ from X and Y by logarithms . . . . .	xiv
II. INSTRUMENT . . . . .	iii	Tables for obtaining $\xi$ without logarithms . . . . .	xiv
III. PHOTOGRAPHIC—		Example of both Methods . . . . .	xiv
Times of Exposure . . . . .	iii	Formulæ for obtaining X from $\xi$ by logarithms . . . . .	xiv
Number of Stars on each Plate . . . . .	iv	Example of finding R.A. and Declination from the Measures . . . . .	xv
Ratio to Schönfeld . . . . .	iv		
Réseaux used at Hyderabad . . . . .	iv	TABLES FOR THE COMPUTATIONS DESCRIBED IN VIII.—	
Details of Plates in this Volume . . . . .	vi	Tables I. and II. for getting $\eta$ or Y . . . . .	xix
IV. MEASUREMENT OF THE PHOTOGRAPHS . . . . .	ix	Tables III., IV., and V. for finding $\xi$ by logarithms . . . . .	xxi
V. DETERMINATION OF PHOTOGRAPHIC MAGNITUDES—		Tables VI., VII., and VIII. for finding X by logarithms . . . . .	xxii
Estimation of Diameter . . . . .	ix	Tables IX. and X. for finding $\xi$ without logarithms . . . . .	xxiv
Formula connecting Diameter and Magnitude . . . . .	ix	Tables XI. and XII. for finding X without logarithms . . . . .	xxx
VI. MEASURES OF POSITION—		TABLES FOR CONVERTING ESTIMATED DIAMETERS INTO PHOTOGRAPHIC MAGNITUDES xxxvii	
Personality of Measurer . . . . .	x	MEASURES OF RECTANGULAR CO-ORDINATES AND DIAMETERS OF 81,821 STAR IMAGES . . . . .	1
Probable Error of the Measures . . . . .	x		
Errors of Réseaux . . . . .	x	STANDARD CO-ORDINATES OF THE STARS IN THE CATALOGUES OF THE ASTRONOMISCHE GESELLSCHAFT (ALGIERS) FOR ZONE -22° . . . . .	243
VII. PLATE CONSTANTS—			
Reference Stars . . . . .	x		
Approximate Solution . . . . .	ix		
Final Solution . . . . .	xi		
Differential Refraction . . . . .	xii		
Differential Aberration . . . . .	xii		

# ERRATA.

## VOL. I. ZONE $-17^{\circ}$ .

PAGE

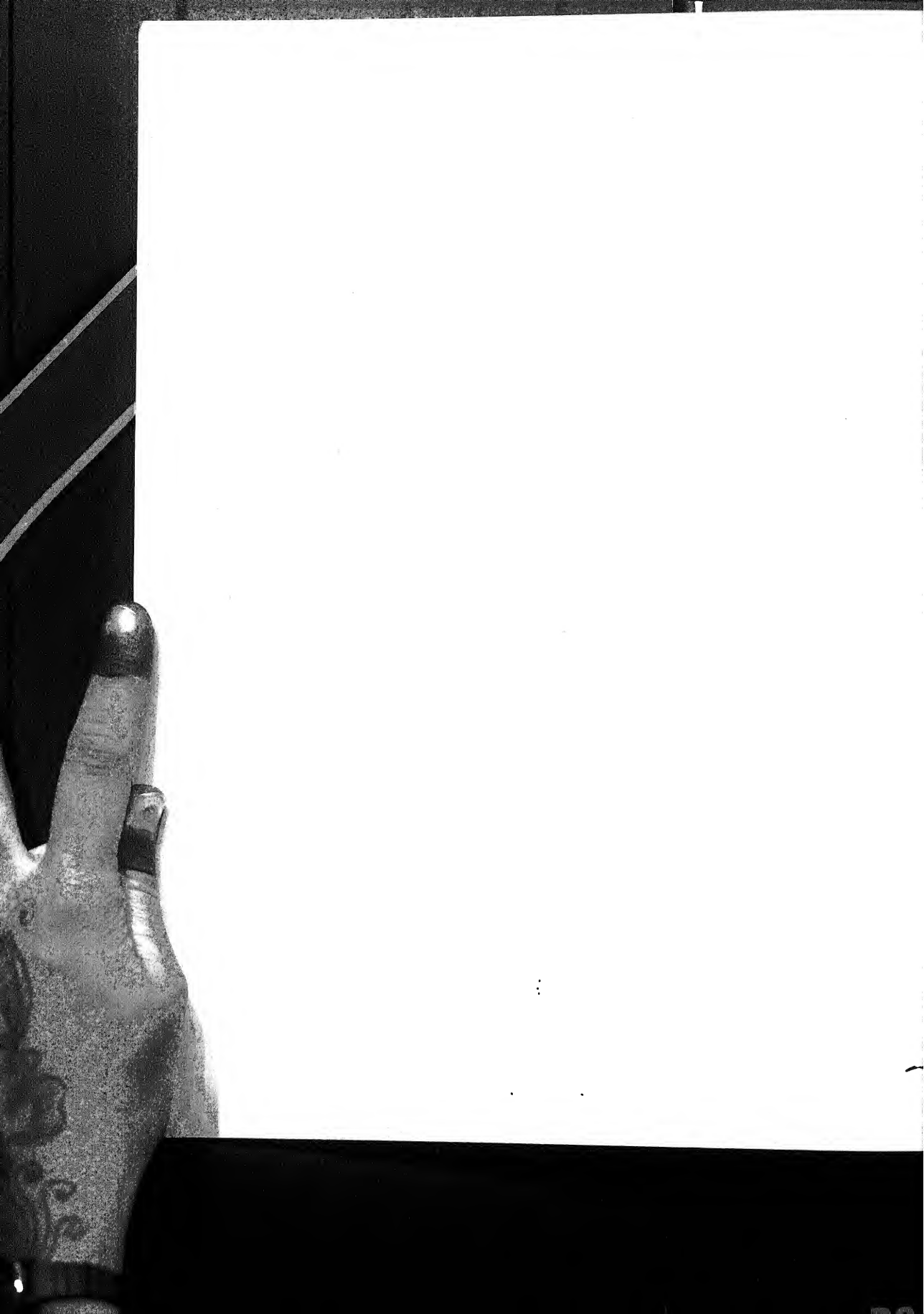
- 8. No. 424 *x*, for 21.258 read 21.358.
- 9. No. 1113 *x*, for 5.864 read 5.684.
- 13. No. 2765 *x*, for 7.976 read 7.876.
- 16. No. 3947 *y*, for 5.500 read 5.000.
- 19. No. 5067 *x*, for 10.768 read 10.687.
- „ No. 5383, delete \*.
- „ No. 5384, read 5384\*.
- „ R.A. 3<sup>h</sup> 0<sup>m</sup>, Plate Constants D, for +.0004 read +.00004.
- 48. No. 15959 *x*, for 6.158 read 5.158.
- „ No. 16206 *d*, for 4 read 8.
- 83. No. 28909 *x*, for 15.399 read 25.399.
- 95. Nos. 33492 to 33499, integral part of *y*, for 13 read 14.
- 101. No. 35820 *y*, for 8.601 read 8.964.
- 103. No. 36425 *x*, for 22.972 read 21.972.
- 122. No. 43805 *y*, for 15.166 read 15.106.
- 123. No. 43953 *y*, for 23.306 read 25.306.
- 128. No. 46060 *y*, for 9.750 read 8.750.
- 188. No. 68096 *x*, for 3.086 read 4.086.
- 189. No. 68584 *x*, for 17.340 read 18.340.
- „ No. 68610 *x*, for 1.103 read 1.130.
- „ No. 68621 *x*, for 25.341 read 24.351.
- „ No. 68628 *y*, for 11.654 read 12.654.
- „ No. 68629 *y*, for 11.831 read 12.831.

## VOL. II. ZONE $-18^{\circ}$ .

- 99. R.A. 12<sup>h</sup> 8<sup>m</sup>, Provisional Constants.
- „ C, for -2890 read +.2903.

## VOL. IV. ZONE $-20^{\circ}$ .

- 39. No. 13164 *x*, for 32.844 read 23.844.



# HYDERABAD ASTROGRAPHIC CATALOGUE.

1900-0.

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VOL. VI.

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## INTRODUCTION.

[A more detailed introduction has been given in Vol. I. of this series. Only such portions have been repeated here as require modification from Zone to Zone or appear necessary in explaining the contents of the present volume.]

### I.—GENERAL.

This volume, the sixth in the section allotted to the Nizamiah Observatory, contains the measures of star images on plates with centres in Dec.  $-22^{\circ}$ . No change has been made in the methods of observation and reduction, and the arrangement of results is in all respects similar to that in the previous volumes of the Catalogue. For a short historical account of the work and for the list of persons who have taken part in it, reference may be made to the introduction to Vol. I. and Vol. V.

### II.—THE INSTRUMENT.

See Introduction to Vol. I. p. vi.

### III.—PHOTOGRAPHIC.

All the plates for this zone have been given three exposures—with the exception of three plates which have been given only two—the telescope being slightly displaced in declination between the exposures. Photographs have been taken only on clear, dark nights in complete absence of moonlight. The lengths of the exposure times have varied with the quality of the plates employed, but for the great majority of the photographs the duration of the primary exposure was 12 m, while the second and third exposures were for 6 m and 40 secs respectively.

The following table shows the class of plate used and also the particular batch from which it was taken:

:

[TABLE.]

Limiting plates.	Class and marker's number.
1439-1448	Elliott's "Stella" D 366
1485-1566	" " A 400
1567-1669	" " C 412
1670-1743	" " A 436
1774-1816	" " B 470
1820-1831	" " B 483
2095-2120	" " D 544
2142-2147	" " C 561
2225-2253	" " A 586
2325, 2326	" " A 605

Almost all the plates in this zone have been developed by Mr Bappu. The developers used are shown in the following table:—

Limiting plates.	Developer.
1439-1831	Pyro soda.
1590-1601	Serchol hydrokinone.
2095-2326	Metol hydrokinone.

As in the previous zones of the Catalogue, no special effort was taken to secure large numbers of stars in the richer regions. The first plate of an area which was centred approximately correct and found otherwise satisfactory was generally accepted. But in the poorer regions reasonable effort has been made to obtain an adequate number of stars. A large number of plates contain between 200 and 400 stars, while there is none containing less than 150.

The ratio of the number of stars on each plate to the number shown on the corresponding region of Schönfeld's map has been used as a general criterion. As a rule, if for any plate this ratio is less than 2.0 (corresponding to 2.5 Argelander's B.D.), it is rejected and a duplicate photograph of the region is obtained under better conditions. The lowest value of this ratio for this zone is 2.1 (which occurs in the region of the dark hole near  $\rho$  Ophiuchi), while for the majority of the plates it is above 3.0. For areas in low galactic latitudes the ratio naturally attains a very high value, although, in such cases, measurers were instructed to leave the very faint stars during measurement. Also in the case of six such plates, an exposure of 2 in or  $2\frac{1}{2}$  in was substituted for 40 secs and only stars showing all the three images have been measured. The total number of stars, however, have been counted and given in the following list. The average number of stars per plate is 490, which is higher than corresponding number for the earlier zones. This was chiefly due to the better quality of the plates which the makers were able to supply during the progress of the work.

Two réseaux were employed in connection with plates in this zone:

1. A Gautier réseau kindly lent by the Kodaikanal Observatory for plates with numbers less than 1831.

2. A réseau supplied by M. Prin, Paris, for the rest of the plates.

The Gautier réseau is ruled to the standard scale (the value of one réseau interval being 5 mm.); as the focal length of the Hyderabad Photographic telescope requires a spacing of 4.985 mm., this involves scale value corrections of about  $-0.175$  times the measured co-

ordinates. In the réseau made by M. Prin the correct spacing suited to the focal length of the telescope has been adopted for the ruling; the scale value corrections are thus very small and easily applied.

The réseau was imprinted on the plates after exposure, but before development by exposure to light from an electric lamp at a distance of about 18 feet from the plate holder; the réseau and the film being separated by an edging of moderately thick paper.

The following table gives the particulars of the plates in the present volume.

The first column is the number of the plate in the Hyderabad series.

The second column gives to three decimal places the fraction of the year corresponding to the astronomical day on which the exposure was made.

The third column gives the approximate R.A. of the plate centre.

The fourth column gives the hour angle of the plate centre corresponding to the middle of the exposure which was subsequently measured. Clock corrections have been applied to obtain Hyderabad Sidereal time to 1 sec, but the result is given to the nearest minute.

The fifth column gives the duration of the exposures; the image due to the longest exposure was measured in all cases except two, viz. R.A.  $4^h 8^m$  and R.A.  $18^h 56^m$  when the images corresponding to the second exposure were measured; the primary image being badly guided and otherwise defective.

The sixth column indicates the observer who guided the telescope; a second observer was always present to assist in setting the instrument, recording time, etc. For the significance of the several initials, see list in Section 1 of the Introduction to the previous volumes of the series.

The seventh column shows which of the measuring micrometers was used. Each measurer used the same instrument throughout. In machine No. 1 the plates for the southern zones have to be measured with glass side towards the microscope.

The eighth column gives the initials of the measurer. Each plate was measured throughout in both positions direct and reverse by one measurer.

The ninth column gives the number of stars measured. For six plates in this zone, which were exposed in very rich regions, only a limited number of stars were measured, viz. those showing images for 2 in or  $2\frac{1}{2}$  in exposure (which was substituted for the 40 sec exposure). These plates are marked with an asterick; all the stars, however, have been counted on each plate and the total number is given immediately below the number measured.

The tenth column shows the ratio of the number of stars on the plate to the number found in the corresponding area of Schönfeld's map.

The eleventh column gives the number of stars in the corresponding region of the "Catalogue de 9997 étoiles," Algiers (1900-0).

[TABLE.]

*List of Plates in the Present Volume. Centres in Dec. —22°.*

No. of plate.	Year of fraction, 1000+.	R.A. of centre.		Hour angle.		Exposures.			Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeldt.	No. in A.G.C. (Algiers).
		h	m	h	m	m	m	s						
2106	23-931	0	0	0	25 W.	12,	6,	40	M.	1	R.	209	3-2	15
2120	23-942		8	0	14 W.	12,	6,	40	A.	1	R.	268	4-6	11
1774	20-999	16	1	22 W.	12,	6,	40		M.	4	M.	158	2-9	10
2115	23-936	24	0	16 E.	12,	6,	40		S.	1	R.	179	3-4	9
2119	23-939	32	0	8 W.	12,	6,	40		M.	3	A.	196	3-4	12
2095	23-914	40	0	39 E.	12,	6,	40		S.	1	R.	186	3-2	20
2107	23-931	48	0	25 W.	12,	6,	40		M.	1	S.	160	2-8	14
2116	23-936	0	56	0	3 W.	12,	6,	40	S.	1	S.	181	3-2	10
2108	23-931	1	4	0	47 W.	12,	6,	40	M.	3	A.	149	2-9	13
2117	23-936	12	0	23 W.	12,	6,	40		S.	1	R.	172	3-2	12
2099	23-923	20	0	39 W.	12,	6,	40		A.	1	S.	160	3-3	15
2098	23-923	28	0	2 E.	12,	6,	40		A.	3	N.	161	3-6	14
1448	19-816	36	0	10 E.	20,	16			S.	1	R.	156	3-1	12
2103	23-925	44	0	34 W.	12,	6,	40		S.	1	R.	221	3-2	10
2111	23-934	1	52	0	2 W.	12,	6,	40	A.	3	N.	233	3-6	16
1500	20-027	2	0	0	51 W.	12,	6,	40	N.	1	R.	223	3-7	17
1505	20-030		8	0	4 W.	12,	6,	40	A.	1	S.	212	4-0	16
1506	20-030	16	0	27 W.	12,	6,	40		A.	3	A.	204	4-2	14
1496	20-025	24	0	22 W.	12,	6,	40		M.	4	M.	234	3-9	15
2104	23-925	32	0	29 W.	12,	6,	40		S.	3	N.	215	4-1	12
2109	23-931	40	0	22 W.	12,	6,	40		V.	1	S.	173	3-3	15
1439	19-810	48	0	12 W.	16,	20			M.	1	R.	187	3-2	20
1497	20-025	2	56	0	26 W.	12,	16		S.	3	N.	160	2-8	19
1490	20-019	3	4	0	25 W.	12,	8,	40	M.	3	A.	262	4-2	23
1776	20-999	12	0	5 W.	12,	6,	40		S.	3	N.	194	3-2	14
1501	20-027	20	0	1 E.	12,	6,	40		M.	3	N.	207	5-2	18
1775	20-999	28	0	46 E.	12,	6,	40		S.	3	A.	182	3-3	15
1519	20-036	36	0	2 E.	12,	6,	40		M.	4	M.	257	4-5	25
1507	20-030	44	0	10 E.	12,	6,	40		A.	1	S.	278	3-7	30
1493	20-022	3	52	0	16 E.	12,	6,	40	A.	3	N.	274	3-6	25
1498	20-025	4	0	3 E.	12,	6,	40		S.	1	R.	287	3-8	29
1520	20-038		8	0	15 W.	6,	12,	6	N.	4	M.	224	3-2	20
1494	20-022	16	0	11 E.	12,	6,	40		A.	3	A.	309	4-4	33
1502	20-027	24	0	24 E.	12,	6,	40		N.	3	N.	297	3-3	22
1508	20-030	32	0	2 W.	12,	6,	40		A.	1	R.	323	3-8	28
1514	20-033	40	0	52 E.	12,	6,	40		S.	3	A.	369	4-1	25
1515	20-033	48	0	26 E.	12,	6,	40		S.	1	S.	342	4-2	23
2118	23-936	4	56	1	37 E.	12,	6,	40	S.	1	R.	321	3-7	28
1532	20-046	5	4	0	4 E.	12,	6,	40	N.	1	R.	449	4-5	28
1495	20-022	12	0	40 E.	12,	6,	40		A.	4	M.	478	5-6	28
1503	20-027	20	0	19 E.	12,	6,	40		M.	3	N.	655	6-9	30
1526	20-041	28	1	11 E.	12,	6,	40		A.	3	A.	436	4-8	26
1509	20-030	36	0	32 E.	12,	6,	40		A.	1	S.	577	7-0	29
1510	20-030	44	0	9 E.	12,	6,	40		A.	1	R.	572	5-8	36
1504	20-027	5	52	0	14 E.	12,	6,	40	A.	1	S.	624	7-3	34
1516	20-033	6	0	1	4 E.	12,	6,	40	S.	3	A.	690	7-8	30
1522	20-038	8	0	37 E.	12,	6,	40		N.	4	M.	702	7-2	29
1518	20-033	16	0	15 E.	12,	6,	40		S.	3	N.	717	8-2	27
1527	20-041	24	1	35 E.	12,	6,	40		M.	1	R.	799	7-7	34
1523	20-038	32	0	25 E.	12,	6,	40		N.	1	S.	1006	8-5	35
1511	20-030	40	0	24 E.	12,	6,	40		A.	4	M.	1034	9-0	34
1528	20-041	48	0	54 E.	12,	6,	40		A.	3	A.	1285	9-2	39
2225	25-200	6	56	1	12 W.	12,	6,	2½ m	A.	3	N.	661*) 1618	4-2 10-4	57
1529	20-041	7	4	0	31 E.	12,	6,	40	M.	1	R.	1234	8-2	53
2142	24-175	12	0	17 E.	12,	6,	2m		A.	3	A.	500*) 1300	3-2 8-2	59
2147	24-181	20	0	10 E.	12,	6,	2m		R.	1	R.	1076	7-1	47
2229	25-203	28	0	21 W.	12,	6,	2m		G	1	R.	703*) 1858	4-3 11-4	47
2243	25-224	36	0	26 W.	12,	6,	2m		A.	1	R.	493*) 1410	3-5 10-1	40



*List of Plates in the Present Volume. Centres in Dec. —22° (continued).*

No. of plate.	Year of fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.			Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schönfeld.	No. in A.G.C. (Aigters).
		h	m	h	m	m	m	s						
1530	20-041	7	44	0	43 E.	12,	6,	408	A.	4	M.	1991	16.1	44
2227	25-200	7	52	1	29 W.	12,	6,	2m	A.	1	R.	610 <sup>a</sup> 1470 675 <sup>b</sup> 2398	4.9 11.8 4.9 17.4	42
2230	25-203	8	0	0	22 W.	12,	6,	2m	S.	3	A.	1718	13.0	41
1533	20-046	8	1	39 E.	12,	6,	408		N.	1	S.	1187	8.7	44
1534	20-046	16	1	15 E.	12,	6,	40		N.	4	M.	1244	10.0	43
1535	20-046	24	0	48 E.	12,	6,	40		N.	1	S.	967	7.5	39
1536	20-046	32	0	21 E.	12,	6,	40		N.	3	N.	621	5.1	43
1485	19-999	40	0	1 W.	15,	9,	1m		B.	1	R.	626	6.0	38
1538	20-049	48	0	54 E.	12,	6,	408		A.	1	R.	593	5.0	26
1537	20-049	8	56	1	31 E.	12,	6,	40	A.	4	M.	571	5.5	33
1539	20-049	9	4	0	39 E.	12,	6,	40	A.	1	S.	603	5.6	33
1540	20-049	12	0	18 E.	12,	6,	40		A.	1	R.	513	4.7	36
1552	20-057	20	0	18 E.	12,	6,	40		S.	4	M.	356	3.2	39
1546	20-055	28	1	7 E.	12,	6,	40		A.	3	N.	389	4.1	35
1547	20-055	36	0	40 E.	12,	6,	40		A.	1	S.	404	4.6	29
1553	20-057	44	0	5 W.	12,	6,	40		S.	4	M.	310	2.9	25
1548	20-055	9	52	0	28 E.	12,	6,	40	A.	1	R.	423	4.9	22
1558	20-115	10	0	1	27 E.	12,	6,	40	A.	3	N.	394	4.9	26
1559	20-115	8	1	6 E.	12,	6,	40		A.	1	S.	349	4.6	27
1560	20-115	16	0	46 E.	12,	6,	40		A.	4	M.	365	4.7	32
1561	20-115	24	0	14 E.	12,	6,	40		A.	1	R.	405	4.6	27
1565	20-118	32	1	21 E.	12,	6,	40		A.	3	N.	337	5.0	20
1566	20-118	40	1	0 E.	12,	6,	40		A.	1	S.	337	4.6	22
1567	20-118	48	0	37 E.	12,	6,	40		A.	1	R.	353	4.6	26
1568	20-118	10	56	0	15 E.	12,	6,	40	A.	4	M.	402	5.5	30
1569	20-118	11	4	0	11 W.	12,	6,	40	A.	1	R.	355	5.7	20
1576	20-120	12	1	10 E.	12,	6,	40		R.	4	M.	328	4.9	22
1577	20-120	20	0	48 E.	12,	6,	40		R.	1	R.	236	3.6	21
1590	20-126	28	1	22 E.	12,	6,	40		N.	4	M.	262	4.0	27
1600	20-131	36	0	39 E.	12,	6,	40		R.	3	N.	305	4.6	27
1578	20-120	44	0	33 E.	12,	6,	40		R.	1	S.	287	3.8	30
1601	20-131	11	52	0	22 E.	12,	6,	40	R.	1	R.	280	3.5	30
1579	20-120	12	0	0	15 E.	12,	6,	40	R.	4	M.	337	6.5	22
1580	20-120	8	0	12 W.	12,	6,	40		R.	3	A.	268	3.4	29
1591	20-126	16	1	36 E.	12,	6,	40		N.	1	R.	243	4.0	21
1625	20-211	24	1	4 E.	12,	6,	40		M.	1	S.	314	4.6	31
1613	20-148	32	1	6 E.	12,	6,	40		R.	3	N.	301	4.7	32
1607	20-145	40	1	38 E.	12,	6,	40		N.	4	M.	238	4.1	16
1618	20-203	48	1	42 E.	12,	6,	40		S.	1	R.	240	5.5	18
1608	20-145	12	56	1	20 E.	12,	6,	40	N.	1	S.	282	4.6	18
1614	20-148	13	4	1	4 E.	12,	6,	40	R.	3	A.	260	3.7	20
1619	20-203	12	1	43 E.	12,	6,	40		G.	4	M.	268	4.1	22
1634	20-282	20	0	35 E.	12,	8,	40		A.	1	R.	236	3.7	24
1626	20-211	28	1	37 E.	12,	6,	40		S.	3	N.	187	3.2	21
1627	20-211	36	1	15 E.	12,	6,	40		M.	3	A.	298	6.5	20
1620	20-203	44	1	38 E.	12,	6,	40		S.	4	M.	338	5.5	27
1621	20-203	13	52	1	12 E.	12,	6,	40	S.	1	S.	384	5.8	23
1628	20-211	14	0	1	10 E.	12,	6,	40	S.	1	R.	375	5.8	15
1635	20-282	8	0	44 E.	12,	6,	40		A.	3	A.	245	4.7	19
1639	20-288	16	0	38 E.	12,	6,	40		M.	4	M.	395	7.5	23
1630	20-279	24	0	31 E.	12,	6,	40		S.	3	N.	232	4.9	18
1790	21-175	32	0	50 E.	12,	6,	40		A.	4	M.	311	5.9	20
1636	20-282	40	0	43 E.	12,	6,	40		A.	1	S.	321	5.1	20
1640	20-288	48	0	34 E.	12,	6,	40		M.	3	A.	320	5.4	24
1641	20-288	14	56	0	8 E.	12,	6,	40	M.	4	M.	332	5.7	24
1646	20-290	15	4	1	2 E.	12,	6,	40	A.	3	N.	312	4.6	17
1649	20-293	12	1	32 E.	12,	6,	40		S.	1	R.	459	7.4	24
1650	20-298	20	0	9 W.	12,	6,	40		M.	1	S.	355	5.9	20
1642	20-288	28	0	6 E.	12,	6,	40		M.	3	A.	473	7.0	27
1632	20-279	36	0	31 E.	12,	6,	40		S.	4	M.			

*List of Plates in the Present Volume. Centres in Dec. —22° (continued).*

No. of plate.	Year of fraction, 1900+.	R.A. of centre.		Hour angle.		Exposures.			Observer.	Instrument.	Measurer.	No. of stars.	Ratio to Schünfeld.	No. in A.G.C. (Algiers).
		h	m	h	m	m	m	s						
1660	20-301	15	44	1	58 E.	12,	6,	40	S.	1	R.	312	4-8	18
1661	20-298	15	52	0	3 W.	12,	6,	40	A.	4	M.	371	5-2	27
1669	20-361	16	0	0	48 E.	12,	6,	40	M.	1	S.	327	4-3	26
1670	20-361		8	0	20 E.	12,	6,	40	B.	3	A.	491	5-4	36
1662	20-301		16	1	30 E.	12,	6,	40	G.	4	M.	228	3-9	23
1793	21-175		24	1	5 E.	12,	6,	40	A.	1	R.	103	2-5	12
1652	20-298		32	0	9 E.	12,	6,	40	M.	3	N.	133	3-7	12
1796	21-178		40	0	56 E.	12,	6,	40	M.	4	M.	216	3-3	21
1688	20-545		48	0	59 W.	12,	6,	40	B.	1	R.	362	4-6	27
1802	21-342	16	56	0	39 E.	12,	6,	40	M.	1	R.	173	2-1	27
2253	25-241	17	4	0	22 E.	12,	6,	40	R.	3	N.	319	4-0	21
1671	20-361		12	0	54 E.	12,	6,	40	M.	4	M.	308	3-9	26
1820	21-742		20	2	15 W.	12,	8,	40	M.	3	A.	214	3-1	25
1653	20-298		28	0	34 E.	12,	6,	40	A.	1	R.	445	4-9	28
1672	20-361		36	0	49 E.	12,	6,	40	B.	3	A.	511	5-5	28
1686	20-438		44	0	25 E.	12,	6,	40	M.	4	M.	921	10-2	24
1654	20-298	17	52	0	29 E.	12,	6,	40	M.	3	N.	988	7-9	28
1821	21-742	18	0	2	16 W.	12,	8,	40	M.	1	R.	1132	6-9	50
1655	20-298		8	0	20 E.	12,	6,	40	A.	3	A.	2156	14-9	32
1656	20-298		16	0	3 E.	12,	8,	40	M.	1	S.	2227	15-5	41
1816	21-353		24	0	32 E.	12,	6,	40	A.	1	R.	461	3-6	36
1831	21-756		32	1	38 W.	12,	6,	40	M.	3	A.	1142	9-2	36
1665	20-304		40	0	11 E.	12,	6,	40	M.	1	R.	659	6-2	26
1822	21-742		48	2	5 W.	12,	8,	40	M.	4	M.	975	8-2	31
2325	26-775	18	56	1	28 W.	15,	9,	2m	M.	3	A.	1085	9-8	28
1692	20-753	19	4	1	9 W.	10,	6,	40	S.	3	A.	549	4-5	32
1722	20-835		12	2	1 W.	12,	6,	40	M.	4	M.	900	5-5	39
1690	20-548		20	0	20 W.	6,	12,	40	R.	4	M.	653	5-4	25
2326	26-775		28	1	31 W.	12,	6,	21m	M.	1	R.	551	4-8	29
1730	20-841		36	2	0 W.	12,	6,	40	R.	4	M.	778	6-9	25
1731	20-862		44	2	9 W.	12,	6,	40	M.	3	A.	391	3-5	24
1825	21-745	19	52	0	55 W.	12,	8,	40	M.	1	R.	563	6-3	16
1694	20-761	20	0	1	11 W.	12,	6,	40	S.	3	N.	468	5-6	19
1727	20-838		8	1	48 W.	12,	6,	40	S.	1	S.	609	5-9	21
1736	20-871		16	1	47 W.	12,	6,	40	M.	3	N.	750	6-9	23
1704	20-791		24	0	3 W.	12,	6,	40	A.	1	R.	664	7-2	20
1737	20-871		32	2	13 W.	12,	6,	40	M.	4	M.	636	6-2	26
1697	20-775		40	0	11 E.	10,	5,	30	S.	1	R.	435	4-8	32
1723	20-835		48	1	6 W.	12,	6,	40	M.	1	S.	286	3-6	24
1733	20-868	20	56	1	42 W.	12,	6,	40	A.	3	A.	491	5-5	16
1698	20-775	21	4	0	2 E.	10,	5,	30	S.	3	N.	475	5-1	22
1728	20-838		12	1	16 W.	12,	6,	40	S.	3	A.	509	6-1	29
1705	20-791		20	0	15 E.	12,	6,	40	A.	3	N.	263	3-7	20
1734	20-868		28	1	38 W.	12,	6,	40	A.	3	A.	354	4-8	18
1699	20-775		36	0	2 E.	10,	5,	30	S.	1	R.	258	3-9	14
1735	20-868		44	1	56 W.	12,	6,	40	A.	4	M.	376	5-9	17
1700	20-775	21	52	0	40 W.	10,	5,	30	S.	1	S.	276	3-6	18
1724	20-835	22	0	0	26 W.	12,	6,	40	M.	3	N.	250	3-4	10
1706	20-791		8	0	16 W.	12,	6,	40	A.	3	A.	287	4-5	19
1695	20-761		16	0	3 E.	12,	6,	40	S.	1	R.	299	3-9	17
1729	20-838		24	0	38 W.	12,	6,	40	S.	4	M.	310	4-4	7
1738	20-871		32	0	51 W.	12,	6,	40	M.	1	S.	312	3-9	14
1702	20-788		40	0	16 W.	12,	6,	40	R.	3	A.	238	3-6	17
1739	20-871		48	1	11 W.	12,	6,	40	M.	3	N.	288	4-2	15
1703	20-788	22	56	1	11 W.	6,	2,	12	A.	3	A.	201	3-2	15
1707	20-791	23	4	0	9 E.	12,	6,	40	A.	1	S.	263	3-9	15
1740	20-920		12	0	18 W.	9,	12,	40	S.	4	M.	309	5-2	15
1725	20-838		20	0	20 E.	12,	6,	40	M.	3	A.	243	4-6	18
1741	20-923		28	0	28 W.	12,	6,	40	M.	1	R.	308	4-7	16
1742	20-923		36	0	58 W.	12,	6,	40	M.	3	N.	222	4-0	13
1743	20-923		44	1	28 W.	12,	6,	40	M.	4	M.	249	3-8	15
1708	20-791	23	52	0	26 E.	12,	6,	40	A.	3	N.	215	3-3	19

The total number of star images measured in this zone is 81,821, which would have been increased to 88,233 had all the stars in the six plates noted \* above been completely measured.

#### IV.—MEASUREMENT OF THE PHOTOGRAPHS.

See Introduction to Vol. I. p. xiii.

#### V.—DETERMINATION OF PHOTOGRAPHIC MAGNITUDES.

At the time the rectangular co-ordinates of a star are measured, an estimation is made of the diameter of the image. The sum of the estimates made in the two positions of the plate is given in the second column under the heading  $d$  of the Catalogue. The unit is thus  $\frac{1}{20000}$  of a réseau interval, or 0".15, as at Greenwich.

For converting these diameters into photographic magnitudes, the general formula provisionally adopted is

$$m = a - b\sqrt{d},$$

where  $d$  is the diameter (sum of the two estimates) and  $a$  and  $b$  are certain constants. These constants have been determined by a method different from that adopted for the previous zones. All the stars found in the corresponding region of the Henry Draper Catalogue have been carefully identified and their photographic magnitudes compared with the Hyderabad diameters. The value of  $b$  for plates in this zone has been taken throughout as 0.94, and the constant  $a$  has been deduced separately for each star by substitution in the formula

$$a = m + b\sqrt{d}.$$

The mean value of  $a$  thus determined for each plate was adopted.

A table for converting measured diameters into photographic magnitudes is given on pp. xxxviii and xxxix of this volume.

The values of the constants  $a$  and  $b$ , being derived mainly from a consideration of the brighter stars, the formula, as given in the Catalogue at the heading of each plate, is not applicable for determining the magnitudes with any degree of accuracy in the case of the faintest stars. It is found that the magnitudes derived from these formulæ make a faint star less bright than it really is. On the Catalogue plates the faintest stars in the region of best focus are not expected to be beyond 13.0 magnitude on the photographic scale.

During the progress of the work an investigation has been made of the corrections applicable to the measured diameters, depending on the distance of the image from the plate centre.

As at Greenwich (vide *Monthly Notices of the R.A.S.*, vol. lxxiii. p. 519), the stars within the same limits of diameter in different regions of the plate were counted and the values of the corrections to  $\sqrt{d}$  deduced from these counts are tabulated below.

Corrections to  $\sqrt{d}$ , depending on Distance from Plate Centre.

$\frac{r}{d}$	0'-17'.	17'-31'.	31'-41'.	41'-49'.	49'-56'.	56'-63'.	63'-73'.	73'-92'.
50	-.02	-.02	+.02	-.06	+.10	-.06	-.09	-.21
30	+.09	.00	-.05	-.04	-.13	-.14	-.13	-.07
20	+.21	-.02	-.06	-.12	-.10	-.04	+.02	+.10
16	+.19	-.03	-.03	-.10	-.13	+.02	+.09	+.16
13	+.12	-.05	.00	-.06	-.06	+.08	+.14	+.27
10	+.05	-.05	+.04	-.03	+.01	+.15	+.21	+.36
8	+.02	-.05	+.04	-.01	+.05	+.17	+.25	+.43

## VI.—MEASURES OF POSITION.

### PERSONALITY OF MEASURER.

The personality of the measurer is determined for each plate after measurement in both direct and reverse positions in the same manner as at Oxford. A full discussion will be found in the *Monthly Notices of the R.A.S.*, vol. lvii, p. 621. The mean excess of the R measure over the D measure is tabulated below in units of 0".03. The error of bisection is one-half the quantity R—D given in the table.

Measurer.	Limiting plate numbers.	Mean R—D.		No. of plates.
		x.	y.	
A.	Whole zone	-.1	-.1	31
M.	do.	+.1	-.2	38
N.	1497-1742	0	0	26
	1776-2253	+.3	-.4	7
R.	1439-1825	-.3	+.2	36
	2103-2326	-.5	+.8	12
S.	Whole zone	-.2	0	30

### PROBABLE ERROR OF THE MEASURES.

See Introduction to Vol. I, pp. xvi-xvii, and Introduction to Vol. II, p. xv.

### ERRORS OF RÉSEAUX.

For purposes of the Catalogue, the errors of the réseaux have been treated as small accidental errors and have not been applied.

## VII.—PLATE CONSTANTS.

The plate constants were determined by the method and formulae given by Professor Turner in the *Monthly Notices of the R.A.S.*, vol. liv, p. 11. The rigorous formulae obtained in that paper were modified in practice as approximate formulae, more convenient for the formation of tables. See next section, pp. xiii-xvi. The positions of the reference stars for plates in the present volume were taken from the "Catalogue de 9997 étoiles," Algiers,

a typewritten copy of which was kindly placed at our disposal by the Director of the Paris Observatory as early as 1915. The right ascensions and declinations are given for the epoch 1900-0, the same as that of the Astrographic Catalogue. The method of computing the provisional constants is fully explained in the Introduction to the Oxford Catalogue, vol. i. p. xxxvii; but for convenience of reference it is briefly described below. The R.A.'s and Declinations of Stars in the Algiers A.G. Catalogue, occurring in this zone, were first converted into standard co-ordinates by methods explained in the next section. The computations from R.A.  $0^h$  to  $9^h$  and  $18^h$  to  $24^h$  were made at this observatory, while, for the remaining hours, the co-ordinates were computed at the University Observatory, Oxford, and kindly communicated to us in MS. A Catalogue of these reference stars with their standard co-ordinates is given in pp. 245-269 of this volume. An approximate solution was then formed for each plate, generally by consideration of only four stars. The scale value was taken as —01750 for plates with numbers less than 1831 and zero for the later plates; the other constants were chosen to be numbers convenient for computation.

Now, if  $\xi$ ,  $\eta$  represent standard co-ordinates of a star referred to the plate centre as origin, and  $\alpha$ ,  $\delta$  its R.A. and Declination, while  $A$ ,  $D$  stand for the R.A. and Declination of the plate centre, we have

$$\begin{aligned}\xi &= k \tan(\alpha - A) \sec(\theta - D) \cos \theta, \\ \eta &= k \tan(\theta - D), \\ \text{where } \tan \theta &= \sec(\alpha - A) \tan \delta, \\ \text{and } k &= 687.549 \text{ (reciprocal of circular measure of } 5').\end{aligned}$$

Then, if  $\xi' = \xi + 13$  and  $\eta' = \eta + 13$ ,  $\xi'$ ,  $\eta'$  represent the standard co-ordinates of the star referred to a corner of the réseau, and if  $\Delta\xi'$ ,  $\Delta\eta'$  represent the correction calculated by means of the above approximate solution, we have

$$x' = \xi' + \Delta\xi', \quad y' = \eta' + \Delta\eta'.$$

If  $x$ ,  $y$  represent the actual measures, we can form  $x - x'$ ,  $y - y'$  for each star on the plate. The stars are then divided into four groups (two by the line  $x = 13.0$  and two by the line  $y = 13.0$ ), and the mean values of  $x$ ,  $x - x'$ ,  $y$  and  $y - y'$  are found for each of these groups. We thus get four pairs of equations of the type

$$ax + by + c = x - x', \quad d\bar{x} + e\bar{y} + f = y - y',$$

where  $\bar{x}$ ,  $\bar{y}$  represent the mean values found.

The six constants  $a$ ,  $b$ ,  $c$ ,  $d$ ,  $e$ ,  $f$  are then computed from these four pairs of equations. Finally, the approximate solution is combined with this accurate solution to give

$$\xi' = x - Ax - By - C, \quad \eta' = y - Dx - Ey - F,$$

from which we obtain the equations

$$\xi = x - 13 - Ax - By - C, \quad \eta = y - 13 - Dx - Ey - F,$$

connecting the standard co-ordinates with the measures. The provisional values of the constants  $A$ ,  $B$ ,  $C$ ,  $D$ ,  $E$ ,  $F$  are given at the heading of each plate.

Theoretically, when the constants  $A$ ,  $B$ ,  $D$ ,  $E$  are corrected for refraction (see below) we should have  $A = E$  and  $B + D = 0$ : where these relations are not satisfied, it generally happens that the reference stars are not uniformly distributed over the region (the distribution is more uneven in this zone than in the previous ones), and sometimes it is due to a star or two included

in the equations having probably small proper motions. After the plate constants have been determined, they are used to correct the Hyderabad places for comparison with Algiers, and the residuals (Hyd.—Alg.) so obtained are entered in ledgers. Except in the case of stars having a sensible P.M. the residuals are generally small, scarcely any exceeding two seconds of arc; in the course of comparison a number of errors have been detected, most of which probably exist only in the typewritten copy and are absent from the original manuscript.

As regards the effect of *differential refraction*, accurate formulæ are given in *Monthly Notices of the R.A.S.*, vol. lvii. p. 135. If  $\beta_0$  is the coefficient of refraction,  $X, Y$  the co-ordinates of the zenith supposed projected on the plate, and  $x, y$  are expressed in terms of the focal length of the telescope as unit, the corrections to be applied to the measures  $x, y$  are, neglecting terms beyond the first order,

$$\Delta x = \beta_0(1+X^2)x + \beta_0XYy;$$

$$\Delta y = \beta_0XYx + \beta_0(1+Y^2)y$$

These corrections are tabulated below.

*Zone —22°.—Correction for Refraction in Units of .000001.*

Hour angle.			$\beta_0(1+X^2).$	$\beta_0XY.$	$\beta_0(1+Y^2).$	Hour angle.			$\beta_0(1+X^2).$	$\beta_0XY.$	$\beta_0(1+Y^2).$
h	m					h	m				
0	0	283	0	474		1	36	371	137	496	
	8	284	10	475			44	389	152	501	
	16	285	20	475		1	52	410	168	506	
	24	288	30	476		2	0	434	186	511	
	32	291	41	477			8	460	204	517	
	40	297	51	478			16	492	225	525	
	48	303	62	479			24	527	247	533	
	56	310	73	481			32	568	272	542	
1	4	319	85	484			40	616	299	552	
	12	320	97	486			48	671	330	564	
	20	341	110	489		2	56	736	366	578	
1	28	355	123	493		3	4	812	406	594	

Thus the corrections at hour angle  $2^h 0^m$  are

$$\Delta x = +.000434x + .000186y,$$

$$\Delta y = +.000186x + .000511y,$$

the upper sign to be taken when the plates are taken west of the meridian.

The corrections for differential aberration are—

$$\Delta x = +K \cos CW \cdot x,$$

$$\Delta y = +K \cos CW \cdot y,$$

where  $C$  is the plate centre and  $W$  is the point on the Ecliptic to which the Earth tends.

We have

$$K \cos CW = 0.000100 \{-0.40 \sin D \cos \odot - 0.96 \cos D \sin (\Lambda - \odot)\},$$

where  $\odot$  is the sun's longitude, neglecting a small term

$$0.000004 \cos D \sin (\Lambda + \odot).$$

For plates in the present volume  $D = -22^\circ$ , and therefore

$$K \cos CW = +.000015 \cos \odot - .000089 \sin (\Lambda - \odot).$$

It will make very little difference if we substitute the sun's R.A. for the longitude, then for a plate taken on the meridian at midnight  $A - \odot = 180^\circ$ , and the second term vanishes.

For plates taken on the meridian at other times, the second term has the following values (unit .000001) :—

6 <sup>h</sup> . —89	7 <sup>h</sup> . —86	8 <sup>h</sup> . —77	9 <sup>h</sup> . —63	10 <sup>h</sup> . —44	11 <sup>h</sup> . —23	12 <sup>h</sup> . 0	13 <sup>h</sup> . +23	14 <sup>h</sup> . +44	15 <sup>h</sup> . +63	16 <sup>h</sup> . +77	17 <sup>h</sup> . +86	18 <sup>h</sup> . +89
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The first term has the following values at the middle of each month in units of .000001 :—

Jan. +6	Feb. +12	Mar. +15	Apr. +14	May. +9	June. +2	July. —3	Aug. —10	Sept. —15	Oct. —14	Nov. —9	Dec. —2
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Thus the  $x$  and  $y$  measures of a star taken on the meridian at 8<sup>h</sup> in April require the corrections —000063 $x$  and —000063 $y$  respectively for differential aberration.

#### VIII.—DETERMINATION OF A STAR'S STANDARD CO-ORDINATES FROM ITS R.A. AND DECLINATION: AND OF ITS R.A. AND DECLINATION FROM ITS MEASURED CO-ORDINATES.

From the provisional constants given at the head of each plate, the standard co-ordinates of a star are obtained from the measures by the formulæ

$$\xi = x - 13 - Ax - By - C,$$

$$\eta = y - 13 - Dx - Ey - F.$$

Increasing  $x$  corresponds to increasing R.A., and increasing  $y$  corresponds to increasing N.P.D.

The “standard co-ordinates”  $\xi, \eta$  of a star are derived from its R.A. and Declination, by the purely geometrical formulæ

$$\xi = k \tan(\alpha - A) \sec(\theta - D) \cos \theta,$$

$$\eta = k \tan(\theta - D),$$

$$\tan \theta = \sec(\alpha - A) \tan \delta \text{ and } k = 687.549,$$

where  $A, D$  are the R.A. and Dec. of the plate centre,  $\alpha, \delta$  those of the star.

For zones not too near the pole, it is more convenient to use the following approximate formulæ :—

Let

$$X = \alpha - A \text{ expressed in units of } 20'' ,$$

$$Y = \delta - D \text{ expressed in units of } 300'' .$$

Then, with sufficient accuracy, we have, for the Hyderabad zones,

$$\eta = Y + \left(\frac{1}{4} \mu \sin 2D\right) \cdot X^2 + \frac{1}{8} \mu^2 (2Y^2 + 3X^2 \cdot Y \cdot \cos 2D),$$

where

$$\mu = 1/k = .00145444 \text{ (=circular measure of } 5').$$

Table I. gives the value of the term  $\frac{1}{4} \mu \sin 2D \cdot X^2$  for different values of  $X$ , when  $D = -22^\circ$ . The small quantity of  $\frac{1}{8} \mu^2 (2Y^2 + 3X^2 \cdot Y \cdot \cos 2D)$  is given in Table II. (Arguments  $X$  and  $Y$ ). Thus we have

$$\eta = Y + \text{Table I.} + \text{Table II.},$$

$$\text{and } Y = \eta - \text{Table I.} - \text{Table II.}$$

Therefore, when  $X$  is known, we can obtain  $\eta$  from  $Y$  or vice versa.

Without logarithms, the computations for  $\xi$  would stand thus ; since  $Y$  is negative, we refer to Table IX., which is headed  $\xi = X - \frac{1}{16}X - \frac{1}{360}X$  — following table, hence we have

$$\begin{array}{rcl} & X = & -12.6140 \\ - \frac{1}{16} X & = & + 0.7884 \\ - \frac{1}{360} X & = & + 0.0420 \\ \text{—Table IX} & = & + 0.0030 \\ \hline & \xi = & -11.7806 \\ \xi' = 13 + \xi & = & 1.2194 \end{array}$$

For obtaining the R.A. and Declination from the measures, the standard co-ordinates have to be computed first by means of the formulæ

$$\begin{aligned} \xi &= X - 13 - Ax - By - C, \\ \eta &= Y - 13 - Dx - Ey - F. \end{aligned}$$

Then by the first method we have

$$\begin{aligned} \log X &= \log \xi \\ &+ \text{Table VI. (Arg. } \xi). \\ &+ \text{Table VII. (Arg. } \eta \text{ to } 0.1). \\ &+ \text{Table VIII. (Arg. fractional part of } \eta \text{ beyond the first decimal).} \end{aligned}$$

With the value of  $X$  thus obtained, we can form  $\eta$ —Table I., and so find a sufficiently approximate value of  $Y$  to enter Table II.

As an example let us take the same star as before, viz. Hyderabad  $-22^\circ, 1$ , whose measures are given on page 3 of the present volume.

$\begin{array}{rcl} x & = & 0.770 \\ -Ax & = & - 1 \\ -By & = & - 2 \\ -C & = & + 0.451 \\ \hline \xi' & = & 1.218 \\ \xi & = & -11.782 \end{array}$	$\begin{array}{rcl} y & = & 0.471 \\ -Dx & = & + 4 \\ -Ey & = & 0 \\ -F & = & + 0.328 \\ \hline \eta' & = & 0.803 \\ \eta & = & -12.197 \end{array}$
$\begin{array}{rcl} \log \xi & = & 1.071219 \\ \text{Table VI.} & = & 10 \\ \text{Table VII.} & = & 0.029671 \\ \text{Table VIII.} & = & 1 \\ \hline \text{sum} = \log X & = & 1.100901 \\ X & = & -12.6154 \\ & = & -4^m 12^s.31 \end{array}$	$\begin{array}{rcl} \text{Table I.} & = & -0.0402 \\ \text{Table II.} & = & + 0.0028 \\ & & \\ Y & = & -12.234 \\ & = & -1^\circ 1' 10''.2. \end{array}$

The co-ordinates of the plate centre being R.A.  $0^h 0^m$  and Dec.  $-22^\circ$ , the R.A. and Declination of the star for the epoch 1900.0 are—

$$23^h 55^m 47^s.69 \qquad -20^\circ 58' 49''.8.$$

The small differences occurring between the values computed from the Hyderabad measures and those given in the Algiers A.G. Catalogue are the sum of—

- (1) Accidental or systematic errors in the Algiers meridian place.



- (2) Accidental or systematic errors in the photographic plate, including the effect of (1) on the plate constants.

- (3) Proper motions between the epochs of the two observations.

The computation of  $\xi', \eta'$  from  $x, y$  is made only to three places of decimals. With the rather large scale value which has been inevitable with the Hyderabad plates, it would require a little care to calculate the fourth place accurately; but since the measures are made only to three places, the extra labour involved is scarcely justified, and will hardly make a difference of as much as one unit in the third decimal place.

Without the use of logarithms, the computation for X stands thus:—

Since  $\eta$  is negative, we refer to Table XI, the precept at the head of which is  $X = \xi + \frac{1}{15} \xi + \frac{1}{250} \xi +$  following table.

$$\begin{array}{r}
 \xi = -11.7820 \\
 + \frac{1}{15} \xi = -0.7855 \\
 + \frac{1}{250} \xi = -0.0471 \\
 + \text{Table XI} = -0.0008 \\
 \hline
 X = -12.6154
 \end{array}$$

Differences of one or two units in the fourth place, when different approximate methods of computation are employed, are unavoidable, and may be neglected.

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HYDERABAD ASTROGRAPHIC CATALOGUE

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T A B L E S

FOR THE CONVERSION OF

R.A. AND DEC. INTO STANDARD CO-ORDINATES

AND OF

STANDARD CO-ORDINATES INTO R.A. AND DEC.

FOR PLATES WITH CENTRES IN

DEC.  $-22^{\circ}$

---

BOTH WITH AND WITHOUT LOGARITHMS



TABLE I.—For  $D = -22^\circ$ .

$$\Delta_1 Y = \frac{\mu}{4} \sin 2D, X^2 = .0002525 X^2.$$

Always additive to Y to get  $\eta$ . Always subtractive from  $\eta$  to get Y.

$\Delta_2 Y$  is given in Table II.

X.	$\Delta_1 Y$ .	X.	$\Delta_1 Y$ .	X.	$\Delta_1 Y$ .	X.	$\Delta_1 Y$ .
0.0-0.4	.0000	4.0	.0040	7.7	.0150	11.4	.0328
0.5	.0001	4.1	.0042	7.8	.0154	11.5	.0334
0.6	.0001	4.2	.0045	7.9	.0158	11.6	.0340
0.7	.0001	4.3	.0047	8.0	.0162	11.7	.0346
0.8	.0002	4.4	.0049	8.1	.0166	11.8	.0352
0.9	.0002	4.5	.0051	8.2	.0170	11.9	.0358
1.0	.0003	4.6	.0053	8.3	.0174	12.0	.0364
1.1	.0003	4.7	.0056	8.4	.0178	12.1	.0370
1.2	.0004	4.8	.0058	8.5	.0182	12.2	.0376
1.3	.0004	4.9	.0061	8.6	.0187	12.3	.0382
1.4	.0005	5.0	.0063	8.7	.0191	12.4	.0388
1.5	.0006	5.1	.0066	8.8	.0196	12.5	.0395
1.6	.0006	5.2	.0068	8.9	.0200	12.6	.0401
1.7	.0007	5.3	.0071	9.0	.0205	12.7	.0407
1.8	.0008	5.4	.0074	9.1	.0209	12.8	.0414
1.9	.0009	5.5	.0076	9.2	.0214	12.9	.0420
2.0	.0010	5.6	.0079	9.3	.0219	13.0	.0427
2.1	.0011	5.7	.0082	9.4	.0223	13.1	.0434
2.2	.0012	5.8	.0085	9.5	.0228	13.2	.0440
2.3	.0013	5.9	.0088	9.6	.0233	13.3	.0447
2.4	.0015	6.0	.0091	9.7	.0238	13.4	.0454
2.5	.0016	6.1	.0094	9.8	.0243	13.5	.0460
2.6	.0017	6.2	.0097	9.9	.0248	13.6	.0467
2.7	.0018	6.3	.0100	10.0	.0253	13.7	.0474
2.8	.0020	6.4	.0104	10.1	.0258	13.8	.0481
2.9	.0021	6.5	.0107	10.2	.0263	13.9	.0488
3.0	.0023	6.6	.0110	10.3	.0268	14.0	.0495
3.1	.0024	6.7	.0113	10.4	.0273	14.1	.0502
3.2	.0026	6.8	.0117	10.5	.0278	14.2	.0509
3.3	.0028	6.9	.0120	10.6	.0284	14.3	.0516
3.4	.0029	7.0	.0124	10.7	.0289	14.4	.0524
3.5	.0031	7.1	.0127	10.8	.0295	14.5	.0531
3.6	.0033	7.2	.0131	10.9	.0300	14.6	.0539
3.7	.0035	7.3	.0135	11.0	.0306	14.7	.0546
3.8	.0036	7.4	.0138	11.1	.0311	14.8	.0553
3.9	.0038	7.5	.0142	11.2	.0317	14.9	.0561
		7.6	.0146	11.3	.0323	15.0	.0568

TABLE II.—For  $D = -22^\circ$ .

$$\Delta_2 Y = \frac{1}{6} \mu^2 (2Y^3 + 3X^2 Y \cos 2D) = 0.00000705 Y^3 + 0.00000761 X^2 Y.$$

Additive to Y with same sign as Y to get  $\eta$ . Additive to  $\eta$  with opposite sign to  $\eta$  to get Y.

Y. X. or $\eta$ .	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	10.5.	11.	11.5.	12.	12.5.	13.	13.5.	14.	14.5.	X. Y. or $\eta$ .
Unit = 0.001 of Rseau Interval.																					
R.I. 0.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	R.I. 0.5
1.0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	1.0
1.5	0	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	2	1.5
2.0	0	0	0	0	0	1	1	1	1	1	2	2	2	2	2	3	3	3	3	3	2.0
2.5	0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	2.5
3.0	0	0	0	0	1	1	1	1	2	2	2	3	3	3	4	4	4	4	5	5	3.0
3.5	0	0	0	1	1	1	1	2	2	3	3	3	4	4	4	5	5	5	6	6	3.5
4.0	0	1	1	1	1	1	2	2	2	3	3	4	4	5	5	5	6	6	7	7	4.0
4.5	1	1	1	1	1	2	2	2	3	3	4	4	5	5	6	6	6	7	7	8	4.5
5.0	1	1	1	1	2	2	2	3	3	4	5	5	6	6	6	7	7	8	8	9	5.0
5.5	1	1	1	2	2	2	3	3	4	5	5	6	6	7	7	8	8	9	9	10	5.5
6.0	2	2	2	2	2	3	3	4	4	5	6	7	7	8	8	9	9	10	10	11	6.0
6.5	2	2	2	2	3	3	4	4	5	6	7	7	8	8	9	10	10	11	12	12	6.5
7.0	2	3	3	3	3	4	4	5	6	7	8	8	9	9	10	11	11	12	13	14	7.0
7.5	3	3	3	4	4	4	5	6	7	8	9	9	10	11	11	12	13	13	14	15	7.5
8.0	4	4	4	4	5	5	6	7	8	9	10	10	11	12	12	13	14	15	16	16	8.0
8.5	4	4	5	5	5	6	7	8	8	10	11	11	12	13	14	14	15	16	17	18	8.5
9.0	5	5	5	6	6	7	8	9	10	11	12	13	13	14	15	16	17	18	19	20	9.0
9.5	6	6	6	7	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20	21	9.5
10.0	7	7	7	8	8	9	10	11	12	13	15	16	16	17	18	19	20	21	22	23	10.0
10.5	8	8	9	9	10	10	11	12	13	15	16	17	18	19	20	21	22	23	24	25	10.5
11.0	9	10	10	10	11	12	12	14	15	16	18	19	20	21	22	23	24	25	26	27	11.0
11.5	11	11	11	12	12	13	14	15	16	18	20	20	21	22	23	24	26	27	28	29	11.5
12.0	12	12	13	13	14	15	16	17	18	20	21	22	23	24	25	27	28	29	30	31	12.0
12.5	14	14	14	15	15	16	17	19	20	22	23	24	25	26	28	29	30	31	32	34	12.5
13.0	15	16	16	16	17	18	19	20	22	24	25	26	28	29	30	31	32	34	35	36	13.0

For  $D = -22^\circ$  and  $\eta$  Positive.Add to log. X (with Table V.) to get log.  $\xi$ .

TABLE III.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
+12	9.96	4067	4041	4015	3990	3964	3938	3913	3887	3861	3835			.09	3	2	2	2	2	1	1	1	0
+11	9.96	4324	4298	4272	4247	4221	4195	4170	4144	4118	4093			.08	5	5	5	4	4	4	3	3	3
+10	9.96	4581	4555	4529	4504	4478	4452	4427	4401	4375	4349			.07	8	7	7	7	7	6	6	6	5
+9	9.96	4837	4812	4786	4760	4735	4709	4683	4658	4632	4606			.06	10	10	10	9	9	9	8	8	8
+8	9.96	5094	5068	5043	5017	4991	4966	4940	4914	4889	4863			.05	13	12	12	12	12	11	11	11	10
+7	9.96	5350	5325	5299	5273	5248	5222	5196	5171	5145	5119			.04	15	15	15	15	14	14	14	13	13
+6	9.96	5606	5581	5555	5530	5504	5478	5453	5427	5401	5376			.03	18	18	17	17	17	16	16	16	16
+5	9.96	5862	5837	5811	5786	5760	5734	5709	5683	5657	5632			.02	20	20	20	20	19	19	19	18	18
+4	9.96	6118	6093	6067	6042	6016	5990	5965	5939	5914	5888			.01	23	23	22	22	22	21	21	21	21
+3	9.96	6374	6349	6323	6297	6272	6246	6221	6195	6169	6144			.00	26	25	25	25	24	24	24	23	23
+2	9.96	6630	6604	6579	6553	6527	6502	6476	6451	6425	6400												
+1	9.96	6885	6860	6834	6808	6783	6757	6732	6706	6681	6655												
+0	9.96	7140	7115	7089	7064	7038	7013	6987	6962	6936	6911												

Unit=.000001.

Unit=.000001.

For  $D = -22^\circ$  and  $\eta$  Negative.Add to log. X (with Table V.) to get log.  $\xi$ .

TABLE III.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
-0	9.96	7140	7166	7191	7217	7242	7268	7294	7319	7344	7370			.00	26	26	26	27	27	27	27	28	28
-1	9.96	7396	7421	7446	7472	7498	7523	7548	7574	7600	7625			.01	28	28	29	29	29	30	30	30	30
-2	9.96	7650	7676	7702	7727	7752	7778	7804	7829	7854	7880			.02	31	31	31	31	32	32	32	33	33
-3	9.96	7905	7931	7956	7982	8007	8033	8058	8084	8109	8135			.03	33	33	34	34	34	35	35	35	35
-4	9.96	8160	8186	8211	8236	8262	8287	8313	8338	8364	8389			.04	36	36	36	36	37	37	37	38	38
-5	9.96	8415	8440	8466	8491	8516	8542	8567	8593	8618	8644			.05	38	39	39	39	40	40	40	40	41
-6	9.96	8669	8694	8720	8745	8771	8796	8822	8847	8872	8898			.06	41	41	41	42	42	42	43	43	43
-7	9.96	8923	8949	8974	9000	9025	9050	9076	9101	9127	9152			.07	43	44	44	44	44	45	45	45	46
-8	9.96	9177	9203	9228	9254	9279	9304	9330	9355	9381	9406			.08	46	46	46	47	47	47	48	48	48
-9	9.96	9431	9457	9482	9508	9533	9558	9584	9609	9634	9660			.09	48	49	49	49	50	50	50	50	51
-10	9.96	9685	9711	9736	9761	9787	9812	9837	9863	9888	9914												
-11	9.96	9939	9964	9989	0015	0040	0066	0091	0116	0142	0167												
-12	9.97	0192	0218	0243	0268	0294	0319	0344	0370	0395	0420												

Unit=.000001.

*All Zones.*For  $D = -22^\circ$ .

TABLE V.

$$\frac{1}{3} \mu^2 \log_{10} e \times X^2 = .00000306 X^2.$$

Add to log. X (with Tables III., IV.).

X.	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
1	0	0	0	1	1	1	1	1	1	1
2	1	1	1	2	2	2	2	2	2	3
3	3	3	3	3	4	4	4	4	4	5
4	5	5	5	6	6	6	6	7	7	7
5	8	8	8	9	9	9	10	10	10	11
6	11	11	12	12	13	13	13	14	14	15
7	15	15	16	16	17	17	18	18	19	19
8	20	20	21	21	22	22	23	23	24	24
9	25	25	26	26	27	28	28	29	29	30
10	31	31	32	32	33	34	34	35	36	36
11	37	38	38	39	40	40	41	42	43	43
12	44	45	46	46	47	48	49	49	50	51
13	52	53	53	54	55	56	57	57	58	59
14	60	61	62	63	63	64	65	66	67	68
15	69	70	71	72	73	74	75	76	77	

Unit = .000001.

TABLE VI.

$$\text{Const.} = -\frac{1}{3} \mu^2 \log_{10} e \cdot \sec^2 D \cdot \xi^2 \\ = .0000000 - .000000356 \xi^2.$$

Add to log.  $\xi$  to get log. X.

$\xi$ .	.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.
0	60	60	60	60	60	60	60	60	60	60
1	60	60	59	59	59	59	59	59	59	59
2	59	58	58	58	58	58	58	57	57	57
3	57	57	56	56	56	56	55	55	55	55
4	54	54	54	53	53	53	52	52	52	51
5	51	51	50	50	50	49	49	48	48	48
6	47	47	46	46	45	45	45	44	44	43
7	43	42	42	41	40	40	39	39	38	38
8	37	37	36	35	35	34	34	33	32	32
9	31	31	30	29	29	28	27	26	26	25
10	24	24	23	22	22	21	20	19	18	18
11	17	16	15	15	14	13	12	11	10	10
12	9	8	7	6	5	4	3	3	2	1

Unit = .0000001.

For  $D = -22^\circ$  and  $\eta$  Positive.Add to log.  $\xi$  (with Table VI.) to get log.  $X$ .

TABLE VII.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

TABLE VIII.

Add for remainder of  $\eta$ 

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
+12	0.03	5822	5848	5874	5899	5925	5951	5976	6002	6028	6054		.09	48	49	49	49	49	50	50	50	50	51
+11	0.03	5565	5591	5617	5642	5668	5694	5719	5745	5771	5796		.08	46	46	46	47	47	47	47	48	48	48
+10	0.03	5308	5334	5360	5385	5411	5437	5462	5488	5514	5540		.07	43	44	44	44	44	45	45	45	45	46
+9	0.03	5052	5077	5103	5129	5154	5180	5206	5231	5257	5283		.06	41	41	41	42	42	42	42	42	43	43
+8	0.03	4795	4821	4846	4872	4898	4923	4949	4975	5000	5026		.05	38	39	39	39	39	40	40	40	40	41
+7	0.03	4539	4564	4590	4616	4641	4667	4693	4718	4744	4770		.04	36	36	36	36	37	37	37	37	38	38
+6	0.03	4283	4308	4334	4359	4385	4411	4436	4462	4488	4513		.03	33	33	34	34	34	34	35	35	35	35
+5	0.03	4027	4052	4078	4103	4129	4155	4180	4206	4232	4257		.02	31	31	31	31	32	32	32	32	33	33
+4	0.03	3771	3796	3822	3847	3873	3899	3924	3950	3975	4001		.01	28	28	29	29	29	29	30	30	30	30
+3	0.03	3515	3540	3566	3592	3617	3643	3668	3694	3720	3745		.00	26	26	26	26	27	27	27	27	28	28
+2	0.03	3259	3285	3310	3336	3362	3387	3413	3438	3464	3489												
+1	0.03	3004	3029	3055	3081	3106	3132	3157	3183	3208	3234												
0	0.03	2749	2774	2800	2825	2851	2876	2902	2927	2953	2978												

Unit=.000001

For  $D = -22^\circ$  and  $\eta$  Negative.Add to log.  $\xi$  (with Table VI.) to get log.  $X$ .

TABLE VII.

Argument,  $\eta$  to 0.1. *Not to be interpolated.*

TABLE VIII.

Add for remainder of  $\eta$ 

$\eta$ .		.0.	.1.	.2.	.3.	.4.	.5.	.6.	.7.	.8.	.9.			.000.	.001.	.002.	.003.	.004.	.005.	.006.	.007.	.008.	.009.
0	0.03	2749	2723	2698	2672	2647	2621	2595	2570	2545	2519		.00	26	25	25	25	24	24	24	24	23	23
1	0.03	2493	2468	2443	2417	2391	2366	2341	2315	2289	2264		.01	23	23	22	22	22	22	21	21	21	21
2	0.03	2239	2213	2187	2162	2137	2111	2085	2060	2035	2009		.02	20	20	20	20	19	19	19	19	18	18
3	0.03	1984	1958	1933	1907	1882	1856	1831	1805	1780	1754		.03	18	18	17	17	17	17	16	16	16	16
4	0.03	1729	1703	1678	1653	1627	1602	1576	1551	1525	1500		.04	15	15	15	15	14	14	14	14	13	13
5	0.03	1474	1449	1423	1398	1373	1347	1322	1296	1271	1245		.05	13	12	12	12	12	11	11	11	11	10
6	0.03	1220	1195	1169	1144	1118	1093	1067	1042	1017	9991		.06	10	10	10	9	9	9	9	8	8	8
7	0.03	0966	0940	0915	0889	0864	0839	0813	0788	0762	0737		.07	8	7	7	7	7	6	6	6	5	5
8	0.03	0712	0686	0661	0635	0610	0585	0559	0534	0508	0483		.08	5	5	5	4	4	4	4	3	3	3
9	0.03	0458	0432	0407	0381	0356	0331	0305	0280	0255	0229		.09	3	2	2	2	2	1	1	1	1	0
10	0.02																						
11	0.02	9950	9925	9900	9874	9849	9823	9798	9773	9747	9722												
12	0.02	9697	9671	9646	9621	9595	9570	9545	9519	9494	9469												

Unit=0.00001.

Unit=.000001.



TABLE IX.—For  $D = -22^\circ$ . $\mathbf{Y}$  Negative.  $\xi = X - \frac{1}{16}X - \frac{1}{300}X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
—13.0	.0001	.0002	.0003	.0004	.0006	.0007	.0009	.0011	.0013	.0015	.0018	.0021	.0024	.0028	.0032	—13.0
—12.9	.0000	.0001	.0002	.0002	.0003	.0004	.0005	.0006	.0008	.0010	.0012	.0014	.0017	.0021	.0024	—12.9
8	.000	.000	.000	.000	.000	.001	.001	.002	.003	.004	.006	.008	.010	.013	.016	8
7	.001	.001	.002	.002	.002	.003	.003	.002	.002	.001	.000	.001	.003	.005	.008	7
6	.001	.002	.003	.004	.005	.006	.006	.007	.007	.007	.006	.005	.004	.002	.000	6
5	.002	.003	.005	.007	.008	.009	.010	.011	.012	.012	.012	.012	.011	.010	.008	5
4	.0002	.0004	.0007	.0009	.0011	.0012	.0014	.0016	.0017	.0018	.0018	.0018	.0018	.0018	.0016	4
3	.003	.006	.008	.011	.014	.016	.018	.020	.022	.023	.024	.025	.025	.025	.025	3
2	.003	.007	.010	.013	.016	.019	.022	.024	.026	.028	.030	.031	.032	.033	.033	2
1	.004	.008	.012	.015	.019	.022	.026	.028	.031	.034	.036	.038	.039	.040	.041	1
—12.0	.004	.009	.013	.018	.022	.026	.029	.033	.036	.039	.042	.044	.046	.048	.049	—12.0
—11.9	.0005	.0010	.0015	.0020	.0024	.0029	.0033	.0037	.0041	.0045	.0048	.0051	.0054	.0056	.0057	—11.9
8	.006	.011	.016	.022	.027	.032	.037	.042	.046	.050	.054	.058	.061	.063	.066	8
7	.006	.012	.018	.024	.030	.035	.041	.046	.051	.056	.060	.064	.068	.071	.074	7
6	.007	.013	.020	.026	.032	.039	.045	.050	.056	.061	.066	.071	.075	.079	.082	6
5	.007	.014	.021	.028	.035	.042	.048	.055	.061	.066	.072	.077	.082	.086	.090	5
4	.0008	.0015	.0023	.0031	.0038	.0045	.0052	.0059	.0066	.0072	.0078	.0084	.0089	.0094	.0098	4
3	.008	.016	.025	.033	.041	.048	.056	.063	.070	.077	.084	.090	.096	.101	.106	3
2	.009	.018	.026	.035	.043	.052	.060	.068	.075	.083	.090	.097	.103	.109	.115	2
1	.009	.019	.028	.037	.046	.055	.064	.072	.080	.088	.096	.103	.110	.117	.123	1
—11.0	.010	.020	.030	.039	.049	.058	.068	.076	.085	.094	.102	.110	.117	.124	.131	—11.0
—10.9	.0010	.0021	.0031	.0042	.0052	.0062	.0071	.0081	.0090	.0099	.0108	.0116	.0124	.0132	.0139	—10.9
8	.011	.022	.033	.044	.054	.065	.075	.085	.095	.105	.114	.123	.131	.140	.147	8
7	.012	.023	.034	.046	.057	.068	.079	.090	.100	.110	.120	.129	.138	.147	.155	7
6	.012	.024	.036	.048	.060	.071	.083	.094	.105	.116	.126	.136	.145	.155	.164	6
5	.013	.025	.038	.050	.062	.075	.086	.098	.110	.121	.132	.142	.153	.162	.172	5
4	.0013	.0026	.0039	.0052	.0065	.0078	.0090	.0103	.0115	.0126	.0138	.0149	.0160	.0170	.0180	4
3	.014	.027	.041	.054	.068	.081	.094	.107	.120	.132	.144	.156	.167	.178	.188	3
2	.014	.028	.042	.057	.071	.084	.098	.111	.124	.137	.150	.162	.174	.185	.196	2
1	.015	.030	.044	.059	.073	.088	.102	.116	.129	.143	.156	.168	.181	.193	.204	1
—10.0	.015	.031	.046	.061	.076	.091	.106	.120	.134	.148	.162	.175	.188	.201	.213	—10.0
—9.9	.0016	.0032	.0048	.0063	.0079	.0094	.0109	.0124	.0139	.0154	.0168	.0182	.0195	.0208	.0221	—9.9
8	.016	.033	.049	.066	.082	.098	.113	.129	.144	.159	.174	.188	.202	.216	.229	8
7	.017	.034	.051	.068	.084	.101	.117	.133	.149	.165	.180	.195	.209	.224	.237	7
6	.018	.035	.052	.070	.087	.104	.121	.138	.154	.170	.186	.201	.216	.231	.245	6
5	.018	.036	.054	.072	.090	.107	.125	.142	.159	.176	.192	.208	.224	.239	.254	5
4	.0019	.0037	.0056	.0074	.0092	.0111	.0128	.0146	.0164	.0181	.0198	.0214	.0231	.0246	.0262	4
3	.019	.038	.057	.076	.095	.114	.132	.151	.169	.186	.204	.221	.238	.254	.270	3
2	.020	.039	.059	.078	.098	.117	.136	.155	.174	.192	.210	.228	.245	.262	.278	2
1	.020	.040	.060	.081	.101	.120	.140	.159	.178	.197	.216	.234	.252	.269	.286	1
—9.0	.021	.042	.062	.083	.103	.124	.144	.164	.183	.203	.222	.240	.259	.277	.294	—9.0
—8.9	.0021	.0043	.0064	.0085	.0106	.0127	.0148	.0168	.0188	.0208	.0228	.0247	.0266	.0285	.0303	—8.9
8	.022	.044	.065	.087	.109	.130	.151	.172	.193	.214	.234	.254	.273	.292	.311	8
7	.022	.045	.067	.089	.112	.134	.155	.177	.198	.219	.240	.260	.280	.300	.319	7
6	.023	.046	.069	.092	.114	.137	.159	.181	.203	.224	.246	.267	.287	.307	.327	6
5	.024	.047	.070	.094	.117	.140	.163	.186	.208	.230	.252	.273	.294	.315	.335	5
4	.0024	.0048	.0072	.0096	.0120	.0143	.0167	.0190	.0213	.0236	.0258	.0280	.0302	.0323	.0344	4
3	.025	.049	.074	.098	.122	.147	.170	.194	.218	.241	.264	.286	.309	.330	.352	3
2	.025	.050	.075	.100	.125	.150	.174	.198	.222	.246	.270	.293	.316	.338	.360	2
1	.026	.051	.077	.102	.128	.153	.178	.203	.227	.252	.276	.299	.323	.346	.368	1
—8.0	.026	.052	.078	.105	.131	.156	.182	.207	.232	.257	.282	.306	.330	.353	.376	—8.0

NOTE.—The numbers in italics are negative.

TABLE IX. *continued.*—For  $D = -22^\circ$ . $\Upsilon$  Negative.  $\xi = X - \frac{1}{16}X - \frac{1}{300}X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
— 7.9 8 7 6 5 4 3 2 1 — 7.0	.0027 .027 .028 .028 .029 .030 .030 .031 .031 .032	.0054 .055 .056 .057 .058 .059 .060 .061 .062 .063	.0080 .082 .083 .085 .087 .088 .090 .092 .093 .095	.0107 .109 .111 .113 .116 .118 .120 .122 .124 .126	.0133 .136 .139 .142 .144 .147 .150 .152 .155 .158	.0160 .163 .166 .169 .173 .176 .179 .182 .186 .189	.0186 .190 .193 .197 .201 .205 .209 .212 .216 .220	.0212 .216 .220 .225 .229 .233 .238 .242 .246 .251	.0237 .242 .247 .252 .257 .262 .267 .272 .276 .281	.0263 .268 .274 .279 .284 .290 .295 .301 .306 .312	.0288 .294 .300 .306 .312 .318 .324 .330 .336 .342	.0312 .319 .326 .332 .339 .345 .352 .358 .365 .371	.0337 .344 .351 .358 .365 .372 .379 .386 .394 .401	.0361 .368 .376 .384 .391 .399 .407 .414 .422 .430	.0384 .392 .401 .409 .417 .425 .433 .442 .450 .458	— 7.9 8 7 6 5 4 3 2 1 — 7.0
— 6.9 8 7 6 5 4 3 2 1 — 6.0	.0032 .033 .033 .034 .034 .035 .036 .036 .037 .037	.0064 .066 .067 .068 .069 .070 .071 .072 .073 .074	.0096 .098 .100 .101 .103 .105 .106 .108 .110 .111	.0129 .131 .133 .135 .137 .140 .142 .144 .146 .148	.0161 .163 .166 .169 .172 .174 .177 .180 .182 .185	.0192 .196 .199 .202 .205 .209 .212 .215 .218 .222	.0224 .228 .231 .235 .239 .243 .247 .250 .254 .258	.0255 .260 .264 .268 .273 .277 .281 .286 .290 .294	.0286 .291 .296 .301 .306 .311 .316 .321 .326 .330	.0317 .323 .328 .334 .339 .344 .350 .355 .361 .366	.0348 .354 .360 .366 .372 .378 .384 .390 .396 .402	.0378 .384 .391 .397 .404 .410 .417 .424 .430 .437	.0408 .415 .422 .429 .436 .443 .450 .457 .464 .471	.0437 .445 .452 .460 .468 .475 .483 .490 .498 .506	.0466 .474 .482 .490 .499 .507 .515 .523 .531 .540	— 6.9 8 7 6 5 4 3 2 1 — 6.0
— 5.9 8 7 6 5 4 3 2 1 — 5.0	.0038 .038 .039 .039 .040 .040 .041 .042 .042 .043	.0075 .076 .077 .078 .080 .081 .082 .083 .084 .085	.0113 .114 .116 .118 .119 .121 .123 .124 .126 .128	.0150 .153 .155 .157 .159 .161 .164 .166 .168 .170	.0188 .190 .193 .196 .199 .201 .204 .207 .210 .212	.0225 .228 .232 .235 .238 .241 .245 .248 .251 .254	.0262 .266 .270 .273 .277 .281 .285 .289 .292 .296	.0299 .303 .308 .312 .316 .321 .325 .329 .334 .338	.0335 .340 .345 .350 .355 .360 .365 .370 .375 .380	.0372 .377 .382 .388 .393 .399 .404 .410 .415 .421	.0408 .414 .420 .426 .432 .438 .444 .450 .456 .462	.0443 .450 .456 .463 .469 .476 .482 .489 .496 .502	.0479 .486 .493 .500 .507 .514 .521 .528 .535 .542	.0514 .521 .529 .536 .544 .552 .559 .567 .574 .582	.0548 .556 .564 .572 .580 .589 .597 .605 .613 .621	— 5.9 8 7 6 5 4 3 2 1 — 5.0
— 4.9 8 7 6 5 4 3 2 1 — 4.0	.0043 .044 .044 .045 .045 .046 .046 .047 .048 .048	.0086 .087 .088 .089 .090 .092 .093 .094 .095 .096	.0129 .131 .132 .134 .136 .137 .139 .141 .142 .144	.0172 .174 .177 .179 .181 .183 .185 .188 .190 .192	.0215 .218 .220 .223 .226 .229 .231 .234 .237 .240	.0258 .261 .264 .268 .271 .274 .277 .281 .284 .287	.0300 .304 .308 .312 .315 .319 .323 .327 .331 .334	.0342 .347 .351 .356 .360 .364 .368 .373 .377 .382	.0384 .389 .394 .399 .404 .409 .414 .419 .424 .429	.0426 .432 .437 .442 .448 .453 .459 .464 .470 .475	.0468 .474 .480 .486 .492 .498 .504 .510 .516 .522	.0509 .515 .522 .528 .535 .541 .548 .554 .561 .568	.0549 .556 .564 .571 .578 .585 .592 .599 .606 .613	.0590 .597 .605 .613 .620 .628 .635 .643 .651 .658	.0629 .638 .646 .654 .662 .670 .678 .687 .695 .703	— 4.9 8 7 6 5 4 3 2 1 — 4.0
— 3.9 8 7 6 5 4 3 2 1 — 3.0	.0049 .049 .050 .050 .051 .051 .052 .052 .053 .054	.0097 .098 .099 .100 .101 .102 .104 .105 .106 .107	.0146 .147 .149 .150 .152 .154 .155 .157 .159 .160	.0194 .196 .198 .201 .203 .205 .207 .209 .212 .214	.0242 .245 .248 .250 .253 .256 .259 .261 .264 .267	.0290 .294 .297 .300 .304 .307 .310 .313 .316 .320	.0338 .342 .346 .350 .354 .357 .361 .365 .369 .373	.0386 .390 .395 .399 .403 .408 .412 .416 .421 .425	.0433 .438 .443 .448 .453 .458 .463 .468 .473 .478	.0481 .486 .492 .497 .502 .508 .513 .519 .524 .530	.0528 .534 .540 .546 .552 .557 .563 .569 .575 .581	.0574 .581 .587 .594 .600 .607 .613 .620 .626 .633	.0620 .627 .634 .642 .649 .656 .663 .670 .677 .684	.0666 .673 .681 .689 .696 .704 .712 .719 .727 .734	.0711 .719 .728 .736 .744 .752 .760 .768 .777 .785	— 3.9 8 7 6 5 4 3 2 1 — 3.0

TABLE IX. *continued.*—For  $D = -22^\circ$ . $\xi = X - \frac{1}{16} X - \frac{1}{300} X$  — following table.

X.																	X.	
Y.		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.		Y.
— 2.9	0054	0108	0162	0216	0270	0323	0376	0430	0482	0535	0587	0639	0691	0742	0793	2.9		
8	055	109	164	218	272	326	380	434	487	540	593	646	698	750	801	8		
7	055	110	165	220	275	330	384	438	492	546	599	652	705	758	809	7		
6	056	111	167	222	278	333	388	443	497	552	605	659	712	765	818	6		
5	056	112	168	224	280	336	392	447	502	557	611	666	719	773	826	5		
4	057	113	170	227	283	339	395	451	507	562	617	672	726	780	834	4		
3	057	114	172	229	286	343	399	456	512	568	623	679	734	788	842	3		
2	058	116	173	231	289	346	403	460	517	573	629	685	741	796	850	2		
1	058	117	175	233	291	349	407	464	522	579	635	692	748	803	858	1		
— 2.0	059	118	177	235	294	352	411	469	527	584	641	698	755	811	866	— 2.0		
— 1.9	0060	0119	0178	0238	0297	0356	0415	0473	0532	0590	0647	0705	0762	0818	0875	— 1.9		
8	060	120	180	240	300	359	418	478	536	595	653	711	769	826	883	8		
7	061	121	182	242	302	362	422	482	541	600	659	718	776	834	891	7		
6	061	122	183	244	305	366	426	486	546	606	665	724	783	841	899	6		
5	062	123	185	246	308	369	430	491	551	611	671	731	790	849	907	5		
4	062	124	186	248	310	372	434	495	556	617	677	737	797	857	916	4		
3	063	125	188	251	313	375	437	499	561	622	683	744	804	864	924	3		
2	063	126	190	253	316	379	441	504	566	628	689	750	811	872	932	2		
1	064	128	191	255	319	382	445	508	571	633	695	757	818	880	940	1		
— 1.0	064	129	193	257	321	385	449	512	576	639	701	764	826	887	948	— 1.0		
— 0.9	0065	0130	0195	0259	0324	0388	0453	0517	0581	0644	0707	0770	0833	0895	0956	— 0.9		
8	066	131	196	262	327	392	456	521	585	650	713	777	840	902	964	8		
7	066	132	198	264	330	395	460	526	590	655	719	783	847	910	973	7		
6	067	133	200	266	332	398	464	530	595	660	725	790	854	918	981	6		
5	067	134	201	268	335	402	468	534	600	666	731	796	861	925	989	5		
4	068	135	203	270	338	405	472	538	605	671	737	803	868	933	997	4		
3	068	136	204	272	340	408	476	543	610	677	743	809	875	941	1006	3		
2	069	137	206	275	343	411	479	547	615	682	749	816	882	948	1014	2		
1	069	138	208	277	346	415	483	552	620	688	755	822	889	956	1022	1		
— 0.0	0070	0140	0209	0279	0348	0418	0487	0556	0625	0693	0761	0829	0896	0963	1030	— 0.0		

TABLE X.—For  $D = -22^\circ$ . $Y$  Positive. $\xi = X - \frac{1}{15} X - \frac{1}{160} X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+ 0.0	.0001	.0002	.0003	.0004	.0006	.0007	.0009	.0011	.0013	.0015	.0018	.0021	.0024	.0028	.0032	+ 0.0
1	.000	.001	.002	.002	.003	.004	.005	.006	.008	.010	.012	.014	.017	.021	.024	1
2	.000	.000	.000	.000	.000	.001	.001	.002	.003	.004	.006	.008	.010	.013	.016	2
3	.001	.001	.002	.002	.002	.003	.003	.002	.002	.001	.000	.001	.003	.005	.008	3
4	.001	.002	.003	.004	.005	.006	.006	.007	.007	.007	.006	.005	.004	.002	.000	4
5	.002	.003	.005	.006	.008	.009	.010	.011	.012	.012	.012	.012	.011	.010	.008	5
6	.002	.004	.007	.009	.011	.012	.014	.016	.017	.018	.018	.018	.018	.018	.016	6
7	.003	.006	.008	.011	.013	.016	.018	.020	.022	.023	.024	.025	.025	.025	.023	7
8	.003	.007	.010	.013	.016	.019	.022	.024	.026	.028	.030	.031	.032	.033	.033	8
+ 0.9	.004	.008	.012	.015	.019	.022	.026	.029	.031	.034	.036	.038	.039	.040	.041	+ 0.9
+ 1.0	.0004	.0009	.0013	.0018	.0022	.0026	.0029	.0033	.0036	.0039	.0042	.0044	.0046	.0048	.0049	+ 1.0
1	.005	.010	.015	.020	.024	.029	.033	.037	.041	.045	.048	.051	.053	.056	.057	1
2	.006	.011	.016	.022	.027	.032	.037	.042	.046	.050	.054	.058	.061	.063	.066	2
3	.006	.012	.018	.024	.030	.035	.041	.046	.051	.056	.060	.064	.068	.071	.074	3
4	.007	.013	.020	.026	.032	.039	.045	.050	.056	.061	.066	.070	.075	.079	.082	4
5	.007	.014	.021	.028	.035	.042	.048	.055	.061	.066	.072	.077	.082	.086	.090	5
6	.008	.015	.023	.030	.038	.045	.052	.059	.066	.072	.078	.084	.089	.094	.098	6
7	.008	.016	.024	.033	.041	.048	.056	.063	.070	.077	.084	.090	.096	.101	.106	7
8	.009	.018	.026	.035	.043	.052	.060	.068	.075	.083	.090	.097	.103	.109	.115	8
+ 1.9	.009	.019	.028	.037	.046	.055	.064	.072	.080	.088	.096	.103	.110	.117	.123	+ 1.9
+ 2.0	.0010	.0020	.0030	.0039	.0049	.0058	.0068	.0076	.0085	.0094	.0102	.0110	.0117	.0124	.0131	+ 2.0
1	.010	.021	.031	.041	.052	.062	.071	.081	.090	.099	.108	.116	.124	.132	.139	1
2	.011	.022	.033	.044	.054	.065	.075	.085	.095	.105	.114	.123	.131	.140	.147	2
3	.012	.023	.034	.046	.057	.068	.079	.090	.100	.110	.120	.129	.138	.147	.156	3
4	.012	.024	.036	.048	.060	.071	.083	.094	.105	.116	.126	.136	.146	.155	.164	4
5	.013	.025	.038	.050	.062	.075	.087	.098	.110	.121	.132	.142	.153	.162	.172	5
6	.013	.026	.039	.052	.065	.078	.090	.103	.115	.126	.138	.149	.160	.170	.180	6
7	.014	.027	.041	.054	.068	.081	.094	.107	.120	.132	.144	.156	.167	.178	.188	7
8	.014	.028	.042	.057	.071	.084	.098	.111	.124	.137	.150	.162	.174	.185	.196	8
+ 2.9	.015	.030	.044	.059	.073	.088	.102	.116	.129	.143	.156	.169	.181	.193	.204	+ 2.9
+ 3.0	.0015	.0031	.0046	.0061	.0076	.0091	.0106	.0120	.0134	.0148	.0162	.0175	.0188	.0200	.0213	+ 3.0
1	.016	.032	.047	.063	.079	.094	.110	.124	.139	.154	.168	.182	.195	.208	.221	1
2	.016	.033	.049	.065	.082	.098	.113	.129	.144	.159	.174	.188	.202	.216	.229	2
3	.017	.034	.051	.068	.084	.101	.117	.133	.149	.165	.180	.195	.209	.224	.237	3
4	.018	.035	.052	.070	.087	.104	.121	.138	.154	.170	.186	.201	.216	.231	.246	4
5	.018	.036	.054	.072	.090	.107	.125	.142	.159	.176	.192	.208	.224	.239	.254	5
6	.019	.037	.056	.074	.092	.110	.128	.146	.164	.181	.198	.214	.231	.246	.262	6
7	.019	.038	.057	.076	.095	.114	.132	.151	.169	.186	.204	.221	.238	.254	.270	7
8	.020	.039	.059	.078	.098	.117	.136	.155	.174	.192	.210	.228	.245	.262	.278	8
+ 3.9	.020	.040	.060	.081	.101	.120	.140	.159	.178	.197	.216	.234	.252	.269	.286	+ 3.9
+ 4.0	.0021	.0042	.0062	.0083	.0103	.0124	.0144	.0164	.0183	.0203	.0222	.0241	.0259	.0277	.0294	+ 4.0
1	.021	.043	.064	.085	.106	.127	.148	.168	.188	.208	.228	.247	.266	.284	.303	1
2	.022	.044	.065	.087	.109	.130	.151	.172	.193	.214	.234	.254	.273	.292	.311	2
3	.022	.045	.067	.089	.112	.133	.155	.177	.198	.219	.240	.260	.280	.300	.319	3
4	.023	.046	.069	.092	.114	.137	.159	.181	.203	.224	.246	.267	.287	.307	.327	4
5	.024	.047	.070	.094	.117	.140	.163	.186	.208	.230	.252	.273	.294	.315	.335	5
6	.024	.048	.072	.096	.120	.143	.167	.190	.213	.236	.258	.280	.302	.323	.344	6
7	.025	.049	.074	.098	.122	.146	.170	.194	.218	.241	.264	.286	.309	.330	.352	7
8	.025	.050	.075	.100	.125	.150	.174	.199	.223	.246	.270	.293	.316	.338	.360	8
+ 4.9	.026	.051	.077	.102	.128	.153	.178	.203	.228	.252	.276	.299	.323	.346	.368	+ 4.9

NOTE.—The numbers in italics are negative.

TABLE X. *continued.*—For  $D = -22^\circ$ .

Y Positive.

 $\xi = X - \frac{1}{15} X - \frac{1}{160} X$  — following table.

X.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	N.
Y.																Y.
+ 5.0	.0026	.0052	.0078	.0105	.0130	.0156	.0182	.0207	.0232	.0257	.0282	.0306	.0330	.0353	.0376	5.0
1	.027	.053	.080	.107	.133	.160	.186	.212	.237	.263	.288	.312	.337	.361	.384	1
2	.027	.054	.082	.109	.136	.163	.190	.216	.242	.268	.294	.319	.344	.368	.392	2
3	.028	.056	.083	.111	.139	.166	.193	.220	.247	.274	.300	.326	.351	.376	.401	3
4	.028	.057	.085	.113	.141	.169	.197	.225	.252	.279	.306	.332	.358	.384	.409	4
5	.029	.058	.087	.116	.144	.173	.201	.229	.257	.284	.312	.339	.365	.391	.417	5
6	.030	.059	.088	.118	.147	.176	.205	.233	.262	.290	.318	.345	.372	.399	.425	6
7	.030	.060	.090	.120	.150	.179	.209	.238	.267	.295	.324	.352	.379	.407	.433	7
8	.031	.061	.092	.122	.152	.182	.212	.242	.272	.301	.330	.358	.386	.414	.442	8
+ 5.9	.031	.062	.093	.124	.155	.186	.216	.246	.277	.306	.336	.365	.394	.422	.450	5.9
+ 6.0	.0032	.0063	.0095	.0126	.0158	.0189	.0220	.0251	.0281	.0312	.0342	.0371	.0401	.0429	.0458	6.0
1	.032	.064	.096	.129	.160	.192	.224	.255	.286	.317	.348	.378	.408	.437	.466	1
2	.033	.065	.098	.131	.163	.196	.228	.260	.291	.323	.354	.384	.415	.445	.474	2
3	.033	.066	.100	.133	.166	.199	.232	.264	.296	.328	.360	.391	.422	.452	.482	3
4	.034	.068	.101	.135	.169	.202	.235	.268	.301	.334	.366	.397	.429	.460	.491	4
5	.034	.069	.103	.137	.171	.205	.239	.273	.306	.339	.372	.404	.436	.468	.499	5
6	.035	.070	.105	.140	.174	.209	.243	.277	.311	.344	.378	.410	.443	.475	.507	6
7	.036	.071	.106	.142	.177	.212	.247	.281	.316	.350	.384	.417	.450	.483	.515	7
8	.036	.072	.108	.144	.180	.215	.251	.286	.321	.355	.390	.424	.457	.490	.523	8
+ 6.9	.037	.073	.110	.146	.182	.218	.254	.290	.326	.361	.396	.430	.464	.498	.531	6.9
+ 7.0	.0037	.0074	.0111	.0148	.0185	.0222	.0258	.0294	.0330	.0366	.0402	.0437	.0471	.0506	.0540	7.0
1	.038	.075	.113	.150	.188	.225	.262	.299	.335	.372	.408	.443	.478	.513	.548	1
2	.038	.076	.114	.153	.190	.228	.266	.303	.340	.377	.414	.450	.486	.521	.556	2
3	.039	.077	.116	.155	.193	.232	.270	.308	.345	.383	.420	.456	.493	.529	.564	3
4	.039	.078	.118	.157	.196	.235	.274	.312	.350	.388	.426	.463	.500	.536	.572	4
5	.040	.080	.119	.159	.199	.238	.277	.316	.355	.393	.431	.469	.507	.544	.580	5
6	.040	.081	.121	.161	.201	.241	.281	.321	.360	.399	.437	.476	.514	.552	.589	6
7	.041	.082	.123	.164	.204	.244	.285	.325	.365	.404	.443	.482	.521	.559	.597	7
8	.042	.083	.124	.166	.207	.248	.289	.329	.370	.410	.449	.489	.528	.567	.605	8
+ 7.9	.042	.084	.126	.168	.210	.251	.292	.334	.375	.415	.455	.496	.535	.574	.613	7.9
+ 8.0	.0043	.0085	.0128	.0170	.0212	.0254	.0296	.0338	.0380	.0421	.0461	.0502	.0542	.0582	.0621	8.0
1	.043	.086	.129	.172	.215	.258	.300	.342	.384	.426	.467	.509	.549	.590	.630	1
2	.044	.087	.131	.174	.218	.261	.304	.347	.389	.432	.473	.515	.556	.597	.638	2
3	.044	.088	.132	.176	.220	.264	.308	.351	.394	.437	.479	.522	.563	.605	.646	3
4	.045	.089	.134	.179	.223	.268	.312	.356	.399	.442	.485	.528	.571	.612	.654	4
5	.045	.090	.136	.181	.226	.271	.315	.360	.404	.448	.491	.535	.578	.620	.662	5
6	.046	.092	.137	.183	.229	.274	.319	.364	.409	.453	.497	.541	.585	.628	.670	6
7	.046	.093	.139	.185	.231	.277	.323	.368	.414	.459	.503	.548	.592	.635	.678	7
8	.047	.094	.141	.188	.234	.280	.327	.373	.419	.464	.509	.554	.599	.643	.687	8
+ 8.9	.048	.095	.142	.190	.237	.284	.331	.377	.424	.470	.515	.561	.606	.651	.695	8.9
+ 9.0	.0048	.0096	.0144	.0192	.0239	.0287	.0334	.0382	.0429	.0475	.0521	.0568	.0613	.0658	.0703	9.0
1	.049	.097	.146	.194	.242	.290	.338	.386	.433	.481	.527	.574	.620	.666	.711	1
2	.049	.098	.147	.196	.245	.294	.342	.390	.438	.486	.533	.581	.627	.674	.720	2
3	.050	.099	.149	.198	.248	.297	.346	.395	.443	.492	.539	.587	.634	.681	.728	3
4	.050	.100	.150	.200	.250	.300	.350	.399	.448	.497	.545	.594	.641	.689	.736	4
5	.051	.101	.152	.203	.253	.303	.354	.403	.453	.502	.551	.600	.648	.696	.744	5
6	.051	.102	.154	.205	.256	.307	.357	.408	.458	.508	.557	.607	.656	.704	.752	6
7	.052	.104	.155	.207	.259	.310	.361	.412	.463	.513	.563	.613	.663	.712	.760	7
8	.052	.105	.157	.209	.261	.313	.365	.416	.468	.519	.569	.620	.670	.719	.768	8
+ 9.9	.053	.106	.159	.211	.264	.316	.369	.421	.473	.524	.575	.626	.677	.727	.777	9.9

TABLE X. *continued.*—For  $D = -22^\circ$ .

Y Positive.

 $\xi = X - \frac{1}{15}X - \frac{1}{160}X$  — following table.

X. Y.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	X. Y.
+10.0	0054	0107	0160	0214	0267	0320	0373	0425	0478	0530	0581	0633	0684	0735	0785	+10.0
1	054	108	162	216	270	323	376	430	482	535	587	639	691	742	793	1
2	055	109	164	218	272	326	380	434	487	541	593	646	698	750	801	2
3	055	110	165	220	275	330	384	438	492	546	599	652	705	757	809	3
4	056	111	167	222	278	333	388	443	497	552	605	659	712	765	818	4
5	056	112	168	224	280	336	392	447	502	557	611	665	719	773	826	5
6	057	113	170	227	283	339	396	451	507	562	617	672	726	780	834	6
7	057	114	172	229	286	343	399	456	512	568	623	679	734	788	842	7
8	058	116	173	231	288	346	403	460	517	573	629	685	741	796	850	8
+10.9	058	117	175	233	291	349	407	464	522	579	635	692	748	803	858	+10.9
+11.0	0059	0118	0177	0235	0294	0352	0411	0469	0527	0584	0641	0698	0755	0811	0867	+11.0
1	060	119	178	238	297	356	415	473	532	590	647	705	762	818	875	1
2	060	120	180	240	299	359	418	478	536	595	653	711	769	826	883	2
3	061	121	182	242	302	362	422	482	541	600	659	718	776	834	891	3
4	061	122	183	244	305	366	426	486	546	606	665	724	783	841	899	4
5	062	123	185	246	308	369	430	491	551	611	671	731	790	849	907	5
6	062	124	186	248	310	372	434	495	556	617	677	737	797	857	916	6
7	063	125	188	251	313	375	438	499	561	622	683	744	804	864	924	7
8	063	126	190	253	316	379	441	504	566	628	689	750	811	872	932	8
+11.9	064	128	191	255	318	382	445	508	571	633	695	757	818	880	940	+11.9
+12.0	0064	0129	0193	0257	0321	0385	0449	0512	0576	0639	0701	0764	0826	0887	0948	+12.0
1	065	130	195	259	324	388	453	517	581	644	707	770	833	895	956	1
2	066	131	196	262	327	392	456	521	585	650	713	777	840	902	965	2
3	066	132	198	264	329	395	460	526	590	655	719	783	847	910	973	3
4	067	133	199	266	332	398	464	530	595	660	725	790	854	918	981	4
5	067	134	201	268	335	402	468	534	600	666	731	796	861	925	989	5
6	068	135	203	270	338	405	472	538	605	671	737	803	868	933	997	6
7	068	136	204	272	340	408	476	543	610	677	743	809	875	941	1006	7
8	069	137	206	275	343	411	479	547	615	682	749	816	882	948	1014	8
+12.9	069	138	208	277	346	415	483	552	620	688	755	822	889	956	1022	+12.9
+13.0	0070	0140	0209	0279	0348	0418	0487	0556	0625	0693	0761	0829	0896	0963	1030	+13.0

TABLE XI.—For  $D = -22^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{15}\xi + \frac{1}{250}\xi$  : following table.

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .
$\eta$ .														$\eta$ .
-13.0	.0003	.0006	.0010	.0013	.0016	.0020	.0025	.0029	.0034	.0040	.0046	.0052	.0060	-13.0
-12.9	.0002	.0005	.0008	.0010	.0013	.0017	.0020	.0024	.0029	.0034	.0039	.0045	.0052	-12.9
8	.002	.004	.006	.008	.010	.013	.016	.019	.023	.027	.032	.037	.043	8
7	.001	.002	.004	.006	.007	.009	.012	.014	.017	.021	.025	.030	.035	7
6	.001	.001	.002	.003	.004	.005	.007	.009	.012	.015	.018	.022	.027	6
5	.000	.000	.000	.001	.001	.002	.003	.004	.006	.008	.011	.015	.019	5
4	.001	.001	.002	.002	.002	.002	.002	.001	.001	.002	.005	.007	.011	4
3	.001	.002	.004	.004	.005	.006	.006	.006	.005	.004	.002	.000	.003	3
2	.002	.004	.006	.007	.008	.010	.010	.011	.011	.009	.009	.008	.005	2
1	.002	.005	.007	.010	.012	.013	.015	.016	.016	.016	.016	.015	.014	1
-12.0	.003	.006	.009	.012	.015	.017	.019	.021	.022	.023	.023	.023	.022	-12.0
-11.9	.0004	.0008	.0011	.0014	.0018	.0021	.0024	.0026	.0028	.0029	.0030	.0030	.0030	-11.9
8	.004	.009	.013	.017	.021	.024	.028	.031	.033	.035	.037	.038	.038	8
7	.005	.010	.015	.020	.024	.028	.032	.036	.039	.042	.044	.045	.046	7
6	.006	.011	.017	.022	.027	.032	.036	.041	.044	.048	.050	.053	.054	6
5	.007	.012	.019	.024	.030	.036	.041	.046	.050	.054	.057	.060	.062	5
4	.007	.014	.020	.027	.033	.040	.045	.051	.056	.060	.064	.068	.070	4
3	.008	.015	.022	.030	.036	.043	.050	.056	.061	.066	.071	.075	.078	3
2	.008	.016	.024	.032	.040	.047	.054	.061	.067	.073	.078	.083	.087	2
1	.009	.018	.026	.034	.043	.051	.058	.066	.073	.079	.085	.090	.095	1
-11.0	.009	.019	.028	.037	.046	.055	.063	.071	.078	.085	.092	.098	.103	-11.0
-10.9	.0010	.0020	.0030	.0040	.0049	.0058	.0067	.0076	.0084	.0092	.0099	.0105	.0110	-10.9
8	.011	.021	.032	.042	.052	.062	.072	.081	.090	.098	.106	.113	.119	8
7	.011	.022	.034	.044	.055	.066	.076	.086	.095	.104	.112	.120	.127	7
6	.012	.024	.036	.047	.058	.070	.080	.091	.101	.110	.119	.128	.135	6
5	.012	.025	.037	.050	.062	.073	.085	.096	.106	.116	.126	.135	.144	5
4	.013	.026	.039	.052	.065	.077	.089	.101	.112	.123	.133	.143	.152	4
3	.014	.028	.041	.055	.068	.081	.094	.106	.118	.129	.140	.150	.160	3
2	.014	.029	.043	.057	.071	.085	.098	.111	.123	.135	.147	.158	.168	2
1	.015	.030	.045	.060	.074	.088	.102	.116	.129	.142	.154	.165	.176	1
-10.0	.016	.031	.047	.062	.077	.092	.107	.121	.135	.148	.161	.173	.184	-10.0
-9.9	.0016	.0032	.0049	.0065	.0080	.0096	.0111	.0126	.0140	.0154	.0168	.0180	.0192	-9.9
8	.017	.034	.051	.067	.084	.100	.115	.131	.146	.160	.174	.188	.201	8
7	.018	.035	.052	.070	.087	.103	.120	.136	.152	.167	.181	.195	.209	7
6	.018	.036	.054	.072	.090	.107	.124	.141	.157	.173	.188	.203	.217	6
5	.019	.038	.056	.075	.093	.111	.129	.146	.163	.179	.195	.210	.225	5
4	.019	.039	.058	.077	.096	.115	.133	.151	.168	.186	.202	.218	.233	4
3	.020	.040	.060	.080	.099	.118	.137	.156	.174	.192	.209	.225	.241	3
2	.021	.041	.062	.082	.102	.122	.142	.161	.180	.198	.216	.233	.249	2
1	.021	.042	.064	.085	.105	.126	.146	.166	.185	.204	.223	.240	.258	1
-9.0	.022	.044	.066	.087	.108	.130	.150	.171	.191	.210	.230	.248	.266	-9.0
-8.9	.0023	.0045	.0068	.0090	.0112	.0134	.0155	.0176	.0197	.0217	.0236	.0256	.0274	-8.9
8	.023	.046	.069	.092	.115	.137	.159	.181	.202	.223	.243	.263	.282	8
7	.024	.048	.071	.095	.118	.141	.164	.186	.208	.229	.250	.271	.290	7
6	.024	.049	.073	.097	.121	.145	.168	.191	.214	.236	.257	.278	.298	6
5	.025	.050	.075	.100	.124	.148	.172	.196	.219	.242	.264	.286	.306	5
4	.026	.051	.077	.102	.127	.152	.177	.201	.225	.248	.271	.293	.315	4
3	.026	.053	.079	.105	.130	.156	.181	.206	.231	.254	.278	.301	.323	3
2	.027	.054	.081	.107	.134	.160	.186	.211	.236	.261	.285	.308	.331	2
1	.028	.055	.082	.110	.137	.164	.190	.216	.242	.267	.292	.316	.339	1
-8.0	.028	.056	.084	.112	.140	.167	.194	.221	.248	.273	.299	.323	.347	-8.0

TABLE XI. *continued.*—For  $D = -22^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{15} \xi + \frac{1}{250} \xi + \text{following table.}$ 

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .
$\eta$ .														$\eta$ .
— 7.9	0029	0058	0086	0115	0143	0171	0199	0226	0253	0280	0306	0331	0356	— 7.9
8	030	059	088	117	146	175	203	231	259	286	312	338	364	8
7	030	060	090	120	149	179	208	236	264	292	319	346	372	7
6	031	061	092	122	152	182	212	241	270	298	326	353	380	6
5	031	063	094	125	156	186	216	246	276	305	333	361	388	5
4	032	064	096	127	159	190	221	251	281	311	340	369	396	4
3	033	065	098	130	162	194	225	256	287	317	347	376	404	3
2	033	066	100	132	165	198	230	261	293	324	354	384	413	2
1	034	068	101	135	168	201	234	266	298	330	361	391	421	1
— 7.0	034	069	103	137	171	205	238	271	304	336	368	399	429	— 7.0
— 6.9	0035	0070	0105	0140	0174	0209	0243	0276	0310	0342	0375	0406	0437	— 6.9
8	036	071	107	142	178	213	247	282	315	349	382	414	445	8
7	036	073	109	145	181	216	252	287	321	355	388	421	454	7
6	037	074	111	147	184	220	256	292	327	361	395	429	462	6
5	038	075	113	150	187	224	260	297	332	368	402	436	470	5
4	038	076	115	152	190	228	265	302	338	374	409	444	478	4
3	039	078	116	155	193	231	269	307	344	380	416	452	486	3
2	040	079	118	158	196	235	274	312	349	386	423	459	494	2
1	040	080	120	160	200	239	278	317	355	393	430	467	502	1
— 6.0	041	082	122	162	203	243	282	322	361	399	437	474	511	— 6.0
— 5.9	0041	0083	0124	0165	0206	0247	0287	0327	0366	0405	0444	0482	0519	— 5.9
8	042	084	126	168	209	250	291	332	372	412	451	489	527	8
7	043	085	128	170	212	254	296	337	378	418	458	497	535	7
6	043	086	130	173	215	258	300	342	383	424	465	504	544	6
5	044	088	132	175	218	262	304	347	389	430	472	512	552	5
4	045	089	134	178	222	266	309	352	395	437	478	520	560	4
3	045	090	135	180	225	269	313	357	400	443	485	527	568	3
2	046	092	137	183	228	273	318	362	406	449	492	535	576	2
1	046	093	139	185	231	277	322	367	412	456	499	542	584	1
— 5.0	047	094	141	188	234	281	327	372	417	462	506	550	593	— 5.0
— 4.9	0048	0095	0143	0190	0237	0284	0331	0377	0423	0468	0513	0557	0601	— 4.9
8	048	097	145	193	241	288	335	382	429	475	520	565	609	8
7	049	098	147	195	244	292	340	387	434	481	527	572	617	7
6	050	099	149	198	247	296	344	392	440	487	534	580	625	6
5	050	100	150	200	250	300	349	397	446	494	541	588	634	5
4	051	102	152	203	253	303	353	402	451	500	548	595	642	4
3	052	103	154	205	256	307	357	407	457	506	555	603	650	3
2	052	104	156	208	260	311	362	412	463	512	562	610	658	2
1	053	105	158	210	263	315	366	418	468	519	569	618	666	1
— 4.0	053	107	160	213	266	318	371	423	474	525	576	626	675	— 4.0
— 3.9	0054	0108	0162	0215	0269	0322	0375	0428	0480	0531	0582	0633	0683	— 3.9
8	055	109	164	218	272	326	380	433	485	538	589	641	691	8
7	055	110	166	220	275	330	384	438	491	544	596	648	699	7
6	056	112	168	223	278	334	388	443	497	550	603	656	707	6
5	056	113	169	226	282	337	393	448	502	557	610	663	716	5
4	057	114	171	228	285	341	397	453	508	563	617	671	724	4
3	058	116	173	231	288	345	402	458	514	569	624	678	732	3
2	058	117	175	233	291	349	406	463	520	576	631	686	740	2
1	059	118	177	236	294	352	410	468	525	582	638	694	748	1
— 3.0	060	119	179	238	297	356	415	473	531	588	645	701	757	— 3.0



TABLE XI. *continued.*—For  $D = -22^\circ$ . $\eta$  Negative. $X = \xi + \frac{1}{15}\xi + \frac{1}{250}\xi + \text{following table.}$ 

$\xi$ $\eta$	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ $\eta$
— 2.9	0060	0121	0181	0241	0300	0360	0419	0478	0537	0594	0652	0709	0765	— 2.9
8	061	122	183	243	304	364	424	483	542	601	659	716	773	8
7	062	123	185	246	307	368	428	488	548	607	666	724	781	7
6	062	124	186	248	310	371	432	493	554	613	673	731	790	6
5	063	126	188	251	313	375	437	498	559	620	680	739	798	5
4	064	127	190	253	316	379	441	503	565	626	687	747	806	4
3	064	128	192	256	320	383	446	508	571	632	694	754	814	3
2	065	129	194	258	323	387	450	514	576	639	700	762	822	2
1	065	131	196	261	326	390	455	519	582	645	707	769	830	1
— 2.0	066	132	198	264	329	394	459	524	588	651	714	777	839	— 2.0
— 1.9	0667	0133	0200	0266	0332	0398	0464	0529	0593	0658	0721	0785	0847	— 1.9
8	067	134	202	268	335	402	468	534	599	664	728	792	855	8
7	068	136	204	271	338	406	472	539	605	670	735	800	863	7
6	068	137	205	274	342	409	477	544	610	677	742	807	872	6
5	069	138	207	276	345	413	481	549	616	683	749	815	880	5
4	070	140	209	279	348	417	486	554	622	689	756	822	888	4
3	070	141	211	281	351	421	490	559	628	696	763	830	896	3
2	071	142	213	284	354	425	495	564	633	702	770	838	905	2
1	072	143	215	286	357	428	499	569	639	708	777	845	913	1
— 1.0	072	145	217	289	361	432	503	574	645	715	784	853	921	— 1.0
— 0.9	0073	0146	0219	0291	0364	0436	0508	0579	0650	0721	0791	0861	0929	— 0.9
8	074	147	221	294	367	440	512	584	656	727	798	868	938	8
7	074	148	222	296	370	444	517	589	662	734	805	876	946	7
6	075	150	224	299	373	447	521	594	667	740	812	883	954	6
5	076	151	226	301	376	451	526	600	673	746	819	891	962	5
4	076	152	228	304	380	455	530	605	679	753	826	898	970	4
3	077	153	230	306	383	459	534	610	684	759	833	906	979	3
2	077	155	232	309	386	463	539	615	690	765	840	914	987	2
1	078	156	234	312	389	466	543	620	696	772	847	921	995	1
— 0.0	0079	0157	0236	0314	0392	0470	0548	0625	0702	0778	0854	0929	1003	— 0.0

TABLE XII.—For  $D = -22^\circ$ .

η Positive.

$$X = \xi + \frac{1}{16}\xi + \frac{1}{60}\xi + \text{following table.}$$

ξ. η.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	ξ. η.
+ 0.0	<i>0006</i>	<i>0013</i>	<i>0019</i>	<i>0026</i>	<i>0033</i>	<i>0040</i>	<i>0047</i>	<i>0055</i>	<i>0063</i>	<i>0072</i>	<i>0081</i>	<i>0091</i>	<i>0102</i>	+ 0.0
1	006	012	017	023	030	036	043	050	058	066	074	084	094	1
2	005	010	015	021	026	032	038	045	052	060	068	076	085	2
3	004	009	014	018	023	028	034	040	046	053	060	068	077	3
4	004	008	012	016	020	025	030	035	041	047	054	061	069	4
5	003	006	010	013	017	021	025	030	035	040	046	053	060	5
6	002	005	008	011	014	017	021	025	029	034	040	046	052	6
7	002	004	006	008	010	013	016	020	023	028	032	038	044	7
8	001	003	004	006	007	009	012	014	018	021	026	030	036	8
+ 0.9	001	001	002	003	004	006	007	009	012	015	018	023	027	+ 0.9
+ 1.0	<i>0000</i>	<i>0000</i>	<i>0000</i>	<i>0000</i>	<i>0001</i>	<i>0002</i>	<i>0003</i>	<i>0004</i>	<i>0006</i>	<i>0009</i>	<i>0012</i>	<i>0015</i>	<i>0019</i>	+ 1.0
1	001	001	002	002	002	002	002	001	001	002	005	008	011	1
2	001	002	004	005	005	006	006	006	005	004	002	000	003	2
3	002	004	006	007	008	010	010	011	011	010	009	008	006	3
4	003	005	008	010	012	014	014	016	016	017	016	015	014	4
5	003	006	009	012	015	017	019	021	022	023	023	023	022	5
6	004	008	011	015	018	021	024	026	028	029	030	031	030	6
7	004	009	013	017	021	025	028	031	034	036	037	038	038	7
8	005	010	015	020	024	029	033	036	039	042	044	046	047	8
+ 1.9	006	011	017	022	028	032	037	041	045	048	051	053	055	+ 1.9
+ 2.0	<i>0006</i>	<i>0013</i>	<i>0019</i>	<i>0025</i>	<i>0031</i>	<i>0036</i>	<i>0042</i>	<i>0046</i>	<i>0051</i>	<i>0055</i>	<i>0058</i>	<i>0061</i>	<i>0063</i>	+ 2.0
1	007	014	021	027	034	040	046	051	056	061	065	069	072	1
2	008	015	023	030	037	044	050	056	062	067	072	076	080	2
3	008	016	025	032	040	048	055	062	068	074	079	084	088	3
4	009	018	026	035	043	052	059	067	074	080	086	092	096	4
5	010	019	028	038	047	055	064	072	079	086	093	099	104	5
6	010	020	030	040	050	059	068	077	085	093	100	107	113	6
7	011	022	032	043	053	063	073	082	091	099	107	114	121	7
8	011	023	034	045	056	067	077	087	097	106	114	122	129	8
+ 2.9	012	024	036	048	059	071	082	092	102	112	121	130	138	+ 2.9
+ 3.0	<i>0013</i>	<i>0025</i>	<i>0038</i>	<i>0050</i>	<i>0062</i>	<i>0074</i>	<i>0086</i>	<i>0097</i>	<i>0108</i>	<i>0118</i>	<i>0128</i>	<i>0137</i>	<i>0146</i>	+ 3.0
1	013	027	040	053	066	078	090	102	114	125	135	145	154	1
2	014	028	042	055	069	082	095	107	119	131	142	152	162	2
3	015	029	044	058	072	086	099	112	125	137	149	160	171	3
4	015	030	046	060	075	090	104	118	131	144	156	168	179	4
5	016	032	048	063	078	094	108	123	137	150	163	176	187	5
6	016	033	049	066	082	097	113	128	142	156	170	183	196	6
7	017	034	051	068	085	101	117	133	148	163	177	191	204	7
8	018	036	053	071	088	105	122	138	154	169	184	198	212	8
+ 3.9	018	037	055	073	091	109	126	143	160	176	191	206	220	+ 3.9
+ 4.0	<i>0019</i>	<i>0038</i>	<i>0057</i>	<i>0076</i>	<i>0094</i>	<i>0113</i>	<i>0131</i>	<i>0148</i>	<i>0165</i>	<i>0182</i>	<i>0199</i>	<i>0214</i>	<i>0229</i>	+ 4.0
1	020	039	059	078	098	116	135	153	171	188	205	221	237	1
2	020	041	061	081	101	120	140	158	177	195	212	229	245	2
3	021	042	063	083	104	124	144	164	182	201	219	237	254	3
4	022	043	065	086	107	128	148	169	188	208	226	244	262	4
5	022	044	067	088	110	132	153	174	194	214	233	252	270	5
6	023	046	068	091	113	136	157	179	200	220	240	260	278	6
7	024	047	070	094	117	139	162	184	205	227	247	267	287	7
8	024	048	072	096	120	143	166	189	211	233	254	275	295	8
+ 4.9	025	050	074	099	123	147	171	194	217	239	261	282	303	+ 4.9

NOTE.—The numbers in italics are negative.

TABLE XII. *continued.*—For  $D = -22^\circ$ .
 $\eta$  Positive.  $X = \xi + \frac{1}{16}\xi + \frac{1}{60}\xi +$  following table.

$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\eta$ .
+ 5.0	0026	0051	0076	0101	0126	0151	0175	0199	0223	0246	0268	0290	0312	5.0
1	026	052	078	104	129	155	180	204	228	252	275	298	320	1
2	027	053	080	106	132	158	184	209	234	258	282	305	328	2
3	027	055	082	109	136	162	189	214	240	265	289	313	336	3
4	028	056	084	111	139	166	193	220	246	271	296	321	345	4
5	029	057	086	114	142	170	198	225	251	278	303	328	353	5
6	029	058	088	117	145	174	202	230	257	284	310	336	361	6
7	030	060	090	119	148	178	206	235	263	290	317	344	370	7
8	031	061	092	122	152	182	211	240	268	297	324	351	378	8
+ 5.9	031	062	093	124	155	185	215	245	274	303	331	359	386	5.9
+ 6.0	0032	0064	0095	0127	0158	0189	0220	0250	0280	0310	0338	0367	0394	6.0
1	032	065	097	129	161	193	224	255	286	316	346	374	403	1
2	033	066	099	132	164	197	229	260	292	322	352	382	411	2
3	034	067	101	134	168	201	233	266	297	329	360	390	419	3
4	034	069	103	137	171	204	238	271	303	335	366	397	428	4
5	035	070	105	140	174	208	242	276	309	341	374	405	436	5
6	036	071	107	142	177	212	247	281	314	348	381	413	444	6
7	036	072	109	145	180	216	251	286	320	354	388	420	452	7
8	037	074	111	147	184	220	256	291	326	361	395	428	461	8
+ 6.9	038	075	113	150	187	224	260	296	332	367	402	436	469	6.9
+ 7.0	0039	0076	0114	0152	0190	0228	0265	0301	0338	0373	0409	0443	0478	7.0
1	039	078	116	155	193	231	269	306	343	380	416	451	486	1
2	040	079	118	157	196	235	274	312	349	386	423	459	494	2
3	040	080	120	160	200	239	278	317	355	392	430	466	502	3
4	041	081	122	162	203	243	282	322	360	399	437	474	511	4
5	041	083	124	165	206	247	287	327	366	405	444	482	519	5
6	042	084	126	168	209	250	291	332	372	412	451	489	527	6
7	043	085	128	170	212	254	296	337	378	418	458	497	536	7
8	043	087	130	173	216	258	300	342	384	424	465	505	544	8
+ 7.9	044	088	132	175	219	262	305	347	389	431	472	512	552	7.9
+ 8.0	0045	0089	0134	0178	0222	0266	0309	0352	0395	0437	0479	0520	0561	8.0
1	045	090	136	180	225	270	314	358	401	444	486	528	569	1
2	046	092	138	183	228	274	318	363	407	450	493	535	577	2
3	046	093	139	186	232	277	323	368	412	456	500	543	586	3
4	047	094	141	188	235	281	327	373	418	463	507	551	594	4
5	048	096	143	191	238	285	332	378	424	469	514	558	602	5
6	048	097	145	193	241	289	336	383	430	476	521	566	610	6
7	049	098	147	196	244	293	341	388	435	482	528	574	619	7
8	050	099	149	198	248	296	345	393	441	488	535	582	627	8
+ 8.9	050	101	151	201	251	300	350	398	447	495	542	589	635	8.9
+ 9.0	0051	0102	0153	0204	0254	0304	0354	0404	0453	0501	0549	0597	0644	9.0
1	052	103	155	206	257	308	359	409	458	508	556	604	652	1
2	052	104	157	209	260	312	363	414	464	514	564	612	660	2
3	053	106	159	211	264	316	368	419	470	520	570	620	669	3
4	054	107	160	214	267	320	372	424	476	527	578	628	677	4
5	054	108	162	216	270	324	377	429	482	533	585	635	686	5
6	055	110	164	219	273	327	381	434	487	540	592	643	694	6
7	056	111	166	221	276	331	386	440	493	546	599	651	702	7
8	056	112	168	224	280	335	390	445	499	553	606	658	710	8
+ 9.9	057	114	170	227	283	339	394	450	505	559	613	666	719	9.9

TABLE XII. *continued.*—For  $D = -22^\circ$ .

Positive.

$$X = \xi + \frac{1}{16}\xi + \frac{1}{60}\xi + \text{following table.}$$

$\eta$ .	$\xi$ .	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	$\xi$ .	$\eta$ .
+10.0	0057	0115	0172	0229	0286	0343	0399	0455	0510	0565	0620	0674	0727	+10.0		
1	058	116	174	232	289	346	404	460	516	572	627	681	735	1		
2	059	117	176	234	292	350	408	465	522	578	634	689	744	2		
3	059	119	178	237	296	354	412	470	528	585	641	697	752	3		
4	060	120	180	239	299	358	417	476	534	591	648	705	760	4		
5	061	121	182	242	302	362	422	481	539	598	655	712	769	5		
6	061	122	184	244	305	366	426	486	545	604	662	720	777	6		
7	062	124	186	247	308	370	430	491	551	610	669	728	786	7		
8	063	125	188	250	312	374	435	496	556	617	676	735	794	8		
+10.9	063	126	189	252	315	377	440	501	562	623	684	743	802	+10.9		
+11.0	0664	0128	0191	0255	0318	0381	0444	0506	0568	0630	0690	0751	0811	+11.0		
1	064	129	193	257	321	385	448	511	574	636	698	758	819	1		
2	065	130	195	260	324	389	453	516	580	642	705	766	827	2		
3	066	131	197	262	328	393	457	522	585	649	712	774	836	3		
4	066	133	199	265	331	397	462	527	591	655	719	782	844	4		
5	067	134	201	268	334	400	466	532	597	662	726	789	852	5		
6	068	135	203	270	337	404	471	537	603	668	733	797	861	6		
7	068	137	205	273	341	408	475	542	609	674	740	805	869	7		
8	069	138	207	275	344	412	480	547	614	681	747	812	877	8		
+11.9	070	139	209	278	347	416	484	552	620	687	754	820	886	+11.9		
+12.0	0707	0140	0211	0280	0350	0420	0489	0558	0626	0694	0761	0828	0894	+12.0		
1	071	142	213	283	354	424	493	563	632	700	768	836	902	1		
2	072	143	214	286	357	428	498	568	638	707	775	843	911	2		
3	072	144	216	288	360	431	502	573	643	713	782	851	919	3		
4	073	146	218	291	363	435	507	578	649	720	789	859	927	4		
5	074	147	220	293	366	439	511	583	655	726	797	866	936	5		
6	074	148	222	296	370	443	516	588	661	732	804	874	944	6		
7	075	150	224	298	373	447	520	594	666	739	811	882	953	7		
8	075	151	226	301	376	451	525	599	672	745	818	890	961	8		
+12.9	076	152	228	304	379	454	529	604	678	752	825	897	969	+12.9		
+13.0	0077	0153	0230	0306	0382	0458	0534	0609	0684	0758	0832	0905	0978	+13.0		



# HYDERABAD ASTROGRAPHIC CATALOGUE

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## T A B L E S

FOR THE CONVERSION OF

MEASURED DIAMETERS OF THE STAR-IMAGES

IN

ZONE — 22°

INTO

STELLAR PHOTOGRAPHIC MAGNITUDES BY  
MEANS OF THE FORMULA

$$m = a - 0.94 \sqrt{d}$$

Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m = a - 0.94\sqrt{d}$ . $a = 15.1$  to  $16.5$ .

$a$ $d$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	$a$ $d$
8	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	8
9	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	9
10	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	10
11	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	11
12	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	12
13	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13
14	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	14
15	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	15
16	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	16
17	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	17
18	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	18
19	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	19
20	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	20
21	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	21
22	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	22
23	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	23
24	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	24
25	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	25
26	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	26
27	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	27
28	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	28
29	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	29
30	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	30
31	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	31
32	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	32
33	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	33
34	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	34
35	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	35
36	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	36
37	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	37
38	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	38
39	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	39
40	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	40
41	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	41
42	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	42
43	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	43
44	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	44
45	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	45
46	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	46
47	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	47
48	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	48
49	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	49
50	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	50
55	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	55
60	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	60
65	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	65
70	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	70
75	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	75
80	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	80
85	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	85
90	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	90
95	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	95
100	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	100
110	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	110
120	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	120
130	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	130
$d$ $a$	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	$d$ $a$

Table for converting Diameters ( $d$ ) into Stellar Magnitudes ( $m$ ) by the formula  $m=a-0.94\sqrt{d}$ . $a=16.6$  to  $18.0$ .

$a$ $d$	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	$a$ $d$
8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	8
9	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	9
10	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	10
11	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	11
12	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	12
13	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	13
14	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14
15	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	15
16	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	16
17	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	17
18	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	18
19	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	19
20	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	20
21	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	21
22	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	22
23	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	23
24	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	24
25	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	25
26	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	26
27	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	27
28	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	28
29	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	29
30	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	30
31	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	31
32	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	32
33	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	33
34	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	34
35	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	35
36	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	36
37	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	37
38	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	38
39	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	39
40	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	40
41	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	41
42	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	42
43	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	43
44	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	44
45	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	45
46	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	46
47	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	47
48	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	48
49	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	49
50	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	50
55	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	55
60	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	60
65	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	65
70	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	70
75	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	75
80	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	80
85	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	85
90	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	90
95	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	95
100	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	100
110	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	110
120	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	120
130	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	130
$d$ $a$	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	$d$ $a$





# HYDERABAD ASTROGRAPHIC CATALOGUE, 1900

ZONE  $-22^{\circ}$

## MEASURES OF RECTANGULAR CO-ORDINATES AND DIAMETERS OF STAR-IMAGES

ON PHOTOGRAPHS TAKEN AT THE NIZAMIAH OBSERVATORY,  
HYDERABAD

#### EXPLANATION OF THE COLUMNS.

The heading of each plate gives the approximate R.A. of the centre, the number of the plate in the Hyderabad series, the date of exposure, the provisional constants by means of which the measures may be converted into standard co-ordinates (see Introduction, Sections VII., VIII.), and the formula connecting magnitude and diameter (see Introduction, Section V.).

The first column gives a reference number which is purely arbitrary; in order to designate a star it is only necessary to state the zone and the number, thus,  $-22^{\circ}$ , 3228; neither the plate number nor the R.A. of the plate centre need be stated. Since a gap is always left between the last number of any plate and the first number of the next following plate, there are many numbers which are not allotted to stars; thus there is no star  $-22^{\circ}$ , 3425.

An asterisk attached to the number in this column indicates that the star is amongst those stars selected from the Algiers Astronomische Gesellschaft Catalogue, the standard co-ordinates of which are given on pages 243-269 of this volume.

The second column gives the measured diameter, estimated in units of  $0''.15$ . These diameters may be converted into magnitudes by means of the formula printed at the head of each plate.

The third and fourth columns give the measured co-ordinates of the stars, denoted by  $x$ ,  $y$ , the directions of the co-ordinate axes being approximately those of increasing R.A. and S. Declination, and the origin being the corner of the réseau: the plate centre is approximately at the point (13, 13).

The stars are arranged in the order of the value of the  $x$  co-ordinate for each zone of one unit of  $y$  (approximately  $5'$ ). Each printed measure is the mean of at least two independent bisections of the star-image made in positions of the plate with orientations differing by  $180^{\circ}$ .

R.A. 0 <sup>h</sup> 0 <sup>m</sup>				R.A. 0 <sup>h</sup> 8 <sup>m</sup>			
Plate 2106; 1923 Dec. 7.				Plate 2120; 1923 Dec. 11.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
+00089	+00517	-4513		+00113	+00827	-2879	
D	E	F		D	E	F	
-00487	+00044	-3284		-00845	+00073	-2545	
Mag. = 16.2 - 0.94√d				Mag. = 16.3 - 0.94√d			
No.	d	x	y	No.	d	x	y
1*	51	0.770	0.471	251	27	3.626	0.484
2	16	9.729	0.899	252	51	5.244	0.006
3	10	14.340	0.169	253	15	5.530	0.615
4	24	16.910	0.690	254	40	5.666	0.194
5	19	22.173	0.031	255*	50	20.758	0.254
6	23	25.885	0.344	256	34	20.965	0.785
7	38	4.297	1.012	257	21	24.313	0.684
8	9	4.714	1.300	258	13	0.724	1.728
9	21	8.761	1.570	259	36	2.611	1.468
10	14	13.768	1.658	260	24	8.423	1.890
11	21	15.981	1.209	261	10	8.423	1.890
12	28	17.056	1.974	262	24	9.466	1.144
13	33	17.972	1.346	263	32	9.520	1.576
14	8	20.680	1.990	264	18	10.955	1.200
15	11	22.962	1.541	265	54	24.410	1.008
16	29	24.886	1.313	266	25	24.586	1.006
17*	45	10.325	2.120	267	28	5.715	2.333
18	19	12.228	2.041	268	45	8.785	2.234
19	23	12.490	2.910	269	11	12.910	2.160
20	42	12.609	2.650	270	78	13.354	2.742
21	23	13.574	2.956	271	11	17.030	2.804
22	12	13.649	2.556	272	13	18.168	2.681
23	10	14.174	2.350	273*	47	22.362	2.490
24	20	16.380	2.292	274	10	23.460	2.638
25	22	16.856	2.100	275	12	2.899	3.436
26	19	21.290	2.245	276	18	5.918	3.123
27*	51	1.476	3.854	277	17	9.541	3.674
28	29	10.862	3.668	278	25	10.751	3.160
29	11	12.720	3.720	279	10	0.075	4.714
30	41	12.826	3.894	280	10	0.984	4.800
31	39	13.066	3.856	281	25	5.222	4.918
32	14	13.130	3.402	282	29	6.759	4.080
33	26	13.482	3.966	283	17	9.556	4.648
34	30	14.900	3.118	284	10	9.841	4.780
35	38	14.951	3.056	285	18	12.544	4.191
36	18	16.050	3.144	286	10	23.374	4.276
37	16	18.300	3.749	287	16	23.812	4.662
38	27	9.807	4.071	288	12	0.860	5.090
39	27	12.882	4.476	289	12	6.760	5.180
40	11	13.062	4.813	290	21	9.768	5.185
41	18	13.091	4.460	291	21	9.768	5.185
42*	41	4.286	5.814				
43	10	5.764	5.700				
44	12	8.103	5.932				
45	9	8.540	5.949				
46	34	9.578	5.898				
47	12	10.684	5.800				
48	12	14.172	5.270				
49	15	14.536	5.332				
50	16	15.239	5.364				
51	30	16.138	5.426				
52	10	18.920	5.318				
53	12	25.931	5.890				
54	16	3.787	6.142				
55	8	5.354	6.800				

364	22	24°28'0	11°21'0	436	20	24°37'6	18°16'9	508	14	0°9'6	25°21'6	591	13	6°49'6	7°6'9	663	41	6°31'8	19°46'8
365	16	0°15'0	12°55'4	437	14	24°79'6	18°45'4	509	41	9°23'2	25°00'0	592	36	8°17'6	7°01'0	664	11	8°33'6	19°61'2
366*	58	3°05'4	12°01'6	438	31	24°82'0	18°43'6	510	10	9°02'6	25°22'2	593*	110	5°12'4	8°80'6	665	37	2°52'9	19°20'2
367	15	4°22'4	12°19'3	439	30	25°84'4	18°44'4	511	17	13°39'4	25°69'4	594	9	22°04'2	8°54'0	666	20	7°41'9	20°65'4
368	22	7°38'4	12°32'2	440	32	2°05'0	19°71'7	512	44	14°54'4	25°10'1	595	17	5°15'0	9°65'8	667	20	7°95'8	20°70'9
369	17	8°33'4	12°63'0	441	9	9°83'6	19°37'4	513	12	16°63'8	25°70'2	596*	39	5°48'0	9°68'6	668	19	8°71'5	20°67'7
370	22	9°04'8	12°92'4	442	27	14°26'7	19°61'6	514	29	17°51'6	25°58'5	597	10	7°39'2	9°15'2	669	11	8°71'5	20°67'7
371	17	11°47'6	12°09'8	443	14	14°28'5	19°62'4	515	12	18°84'0	25°89'2	598	14	13°30'0	9°02'0	670	26	16°94'7	20°70'7
372	10	11°80'8	12°69'6	444	13	15°15'4	19°15'6	516	24	19°50'0	25°65'4	599	10	20°60'8	9°14'2	671	9	22°72'6	20°95'0
373	12	20°35'2	12°12'4	445	19	1°19'7	20°87'0	517	46	20°60'6	25°69'4	600	11	0°86'0	10°55'0	672	31	24°01'6	20°65'5
374	22	24°87'4	12°07'0	446	43	2°18'8	20°16'8	518	18	21°73'2	25°15'2	601	27	13°44'5	10°09'2	673	13	24°06'2	20°38'2
375	22	0°30'6	13°47'5	447	11	3°52'3	20°78'4					602	25	13°87'4	10°12'1	674	19	24°74'4	20°12'6
376	21	1°26'3	13°31'1	448	44	3°09'4	20°47'4					603	10	20°52'9	10°21'1	675	30	1°67'7	21°78'4
377	11	5°42'0	13°87'2	449	14	5°14'8	20°79'6					604	17	2°13'4	11°10'8	676	8	2°20'1	21°73'9
378	10	18°21'0	13°09'0	450	12	6°75'6	20°15'6					605	16	2°72'4	11°94'5	677	10	5°19'4	21°88'4
379	15	18°51'0	13°71'8	451	11	11°12'3	20°64'4					606	14	5°14'0	11°99'8	678	41	11°49'0	21°62'4
380	20	19°83'1	13°11'1	452	50	11°23'6	20°12'4					607	21	12°44'0	12°25'9	679	24	24°03'3	21°98'9
381	21	22°12'5	13°50'0	453	15	18°32'2	20°84'2					608	23	23°09'2	11°34'2	680	21	1°45'8	22°78'4
382*	48	22°73'4	13°85'0	454	21	19°67'0	20°47'4					609	12	4°67'3	12°84'7	681	11	3°64'4	22°39'0
383	12	25°33'3	13°94'6	455	28	19°89'0	20°03'0					610	11	7°52'5	12°51'2	682	9	7°65'0	22°68'8
384	27	1°77'6	14°23'8	456	14	20°95'0	20°66'2					611	8	13°81'8	12°12'4	683	20	8°17'3	22°76'4
385	17	5°15'8	14°99'0	457	11	24°03'4	20°02'4					612	19	16°95'3	12°11'1	684	12	10°25'0	22°51'8
386	37	10°87'0	14°16'6	458	13	0°38'0	21°66'5					613	10	19°25'0	12°41'0	685	25	17°78'3	22°78'8
387	10	11°14'6	14°09'9	459	63	1°26'6	21°62'4					614	18	0°04'6	13°38'8	686	26	18°70'4	22°70'2
388	11	13°55'2	14°81'7	460	30	2°74'6	21°21'5					615*	51	0°64'5	13°72'0	687	9	19°33'0	22°40'9
389	10	14°68'6	14°87'9	461	49	5°06'6	21°04'2					616	13	8°01'5	13°94'9	688	14	19°54'8	22°86'4
390*	50	16°34'5	14°15'8	462	10	15°39'4	21°31'4					617	16	15°64'5	13°56'0	689	21	3°29'6	23°00'4
391	13	16°34'8	14°19'6	463	17	16°09'5	21°78'5					618	27	18°37'2	13°41'0	690	11	4°97'7	23°17'4
392	12	16°77'2	14°10'8	464	29	16°32'0	21°62'0					619	26	0°27'4	14°70'0	691	22	7°19'3	23°29'6
393	10	18°02'6	14°37'9	465	21	16°83'5	21°65'1					620*	47	0°65'4	14°32'6	692	45	9°57'2	23°51'6
394	11	20°84'0	14°85'0	466	13	17°27'4	21°57'6					621	33	9°98'2	14°38'2	693	17	10°50'4	23°07'5
395	25	20°95'4	14°54'4	467	16	17°63'0	21°11'8					622	14	11°55'6	14°50'6	694	10	18°15'7	23°53'2
396	30	22°33'9	14°84'0	468	14	18°27'4	21°11'1					623	13	16°86'4	14°08'1	695	12	6°14'8	24°35'8
397*	42	22°73'4	14°46'8	469	42	19°34'6	21°00'5					624	13	20°17'6	14°18'0	696	23	6°83'5	24°31'1
398	16	1°74'8	15°26'7	470	25	19°47'4	21°06'0					625	24	20°99'1	14°94'6	697	17	7°37'7	24°17'5
399	11	10°87'8	15°93'4	471	25	19°50'4	21°30'5					626*	81	25°56'0	14°45'8	698	16	14°52'5	24°74'1
400	35	12°80'4	15°09'9	472	12	21°88'4	21°74'3					627	12	4°24'7	15°92'3	699	8	20°38'0	24°05'8
401	17	14°36'6	15°34'4	473	24	4°63'4	22°42'6					628	27	8°16'8	15°00'4	700	10	21°34'4	24°20'1
402	38	15°65'2	15°65'6	474	25	5°48'4	22°51'0					629	9	14°72'4	15°54'6	701	10	23°03'2	24°23'0
403	25	16°25'0	15°90'6	475	18	8°45'0	22°75'3					630	13	15°39'8	15°95'5	702	66	0°21'4	25°97'5
404	10	17°32'0	15°17'4	476	18	9°27'1	22°18'9					631	16	16°26'5	15°47'2	703	9	5°35'0	25°79'2
405	11	18°80'0	15°92'0	477	48	12°38'4	22°50'7					632	12	19°28'3	15°59'2	704	22	9°50'6	25°06'6
406	11	18°93'1	15°68'6	478	23	15°94'9	22°72'1					633	12	24°41'2	15°42'8	705	24	12°47'7	25°86'1
407	19	19°01'6	15°95'0	479	11	16°69'0	22°58'2					634	26	25°22'9	15°27'2	706	10	12°53'1	25°86'4
408	10	24°51'4	15°72'3	480	33	18°58'0	22°85'8					635*	57	4°57'3	16°99'3	707	11	16°19'2	25°61'0
409	21	5°19'4	16°67'6	481	11	21°76'4	22°52'7					636	9	4°78'0	16°24'6	708	10	24°76'4	25°39'2
410	12	6°94'0	16°78'2	482	34	23°67'0	22°07'7					637	19	4°86'2	16°40'4				
411	10	9°84'6	16°43'2	483	14	24°20'0	22°03'4					638	19	6°70'8	16°84'7				
412	12	11°57'4	16°41'2	484	13	25°65'8	22°72'0					639*	58	8°76'6	16°64'9				
413	10	12°71'4	16°88'5	485	26	0°15'8	23°35'8					640	31	9°67'8	16°00'2				
414	25	13°84'0	16°14'0	486	15	3°00'6	23°97'3					641	9	11°34'0	16°72'9				
415	20	17°60'6	16°59'7	487	26	3°90'4	23°75'7					642	12	18°33'7	16°43'2				
416	28	20°76'6	16°17'6	488	10	7°48'6	23°66'2					643	10	22°34'8	16°98'8				
417	15	21°23'2	16°79'3	489	35	11°04'1	23°34'9					644	22	0°43'3	17°34'0				
418	15	4°45'1	17°17'9	490	9	11°18'5	23°94'2					645	14	2°32'0	17°94'1				
419	10	8°76'8	17°79'8	491	12	13°85'9	23°30'1					646	21	12°43'6	17°58'7				
420	11	11°99'0	17°81'5	492	13	13°87'0	23°98'2					647	11	13°75'4	17°06'0				
421	16	12°88'7	17°63'9	493	12	18°11'4	23°66'5					648	19	15°63'7	17°87'2				
422	19	15°22'4	17°12'4	494	30	18°52'9	23°87'7					649*	33	17°29'4	17°98'6				
423	23	16°06'6	17°66'8	495	30	23°43'0	23°09'0					650	19	22°27'8	17°24'9				
424	14	18°30'4	17°43'6	496	10	24°35'4	23°07'1					651	9	22°42'8	17°79'0				
425	29	22°46'6	17°53'0	497	26	25°29'8	23°33'9					652	10	24°29'4	17°69'2				
426	10	2°66'0	18°82'3	498	19	3°50'0	24°02'0					653	15	24°72'2	17°52'1				
427*	39	3°46'3	18°24'8	499	17	5°26'2	24°80'3					654	14	0°31'8	18°50'6				
428*	61	6°45'9	18°59'4	500	14	6°44'4	24°47'0					655	28	2°75'8	18°19'6				
429	19	6°81'2	18°07'9	501	11	7°98'4	24°43'8					656	25	3°76'4	18°19'2				
430	29	11°73'0	18°67'2	502	41	12°08'0	24°61'2					657	11	4°60'4	18°94'8				
431	25	15°38'6	18°60'5	503	11	12°85'6	24°77'0					658	9	5°73'2	18°73'4				
432	10	15°50'6	18°60'6	504	80	12°89'2	24°97'9					659	10	22°50'6	18°73'4				
433	10	15°54'0	18°60'5	505	20	15°16'2	24°38'0					660	22	22°63'4	18°33'7				
434	9	17°27'0	18°23'0	506	13	15°26'2	24°33'7					661	11	4°10'3	19°03'4				
435	22	22°33'0	18°71'7	507															

11	6-318	19-468	755	21	4-848	1-186	827	12	20-880	12-531	899	21	9-520	21-090	968	23	25-737	2-852	1040	23	7-885	12-910
11	8-336	19-612	756*	53	7-250	1-111	828	12	3-535	13-062	900	19	10-068	21-090	969	10	0-233	3-812	1041	14	9-109	12-510
37	25-270	19-202	757	10	9-164	1-030	829*	41	4-880	13-872	901	12	10-388	21-408	970	12	0-404	3-400	1042*	42	10-508	12-280
35	25-876	19-260	758	17	16-145	1-707	830	27	7-220	13-884	902	25	14-515	21-122	971	25	9-390	3-200	1043	10	11-792	12-917
20	7-419	20-654	759	24	2-732	2-540	831	10	14-776	13-188	903	33	23-350	21-666	972	12	14-402	3-914	1044	15	14-372	12-630
11	7-958	20-709	760	19	2-932	2-690	832	13	15-326	13-872	904	14	23-024	21-849	973	30	10-510	3-665	1045	15	15-512	12-729
19	8-715	20-977	761	12	4-094	2-917	833	11	22-025	13-665	905	30	2-050	22-556	974	30	22-026	3-704	1046*	34	15-770	12-340
26	16-947	20-707	762	19	4-864	2-470	834	88	3-538	14-882	906	21	5-194	23-814	975	11	2-204	4-225	1047	11	20-084	12-020
9	22-726	20-950	763	28	8-173	2-971	835*	22	10-090	14-600	907	16	9-323	23-302	976	13	2-870	4-554	1048	23	12-324	13-057
31	24-016	20-655	764	30	10-857	2-180	836	17	22-184	14-842	908	14	9-350	23-273	977	14	4-310	4-228	1049	10	14-959	13-430
13	24-062	20-988	765	27	14-570	2-404	837	12	19-030	14-280	909	10	9-770	23-210	978	19	5-794	4-429	1050	21	15-864	13-702
19	24-744	20-126	766	26	21-560	2-138	838	17	23-154	14-541	910	16	12-831	23-145	979*	63	10-148	4-602	1051	12	0-318	14-814
30	1-677	21-784	767	10	4-578	3-632	839	23	19-504	14-541	911	33	16-568	23-430	980	13	13-530	4-442	1052	10	1-760	14-664
10	5-201	21-733	768	14	6-240	3-730	840	11	22-612	14-348	912	14	20-256	23-950	981	31	15-141	4-750	1053	28	8-378	14-330
41	11-490	21-624	769	60	6-736	3-238	841	26	2-385	15-877	913	16	25-677	23-604	982	31	15-931	4-750	1054	10	9-033	14-649
24	24-033	21-989	770*	14	7-116	3-761	842	26	4-316	15-707	914	45	5-890	24-675	983	24	15-931	4-750	1055	33	9-635	14-934
21	1-458	22-784	771	10	13-860	3-038	843	59	5-106	15-360	915	11	9-728	24-374	984	15	17-920	4-189	1056	12	11-318	14-794
11	3-044	22-980	772	14	14-587	3-838	844*	14	7-206	15-284	916	11	15-280	24-756	985	24	19-842	4-323	1057	23	15-486	14-504
9	7-656	22-688	773	26	17-536	3-518	845*	59	5-106	15-360	917	11	15-950	24-756	986	34	2-488	5-938	1058	29	15-502	14-566
2	8-173	22-764	774	9	24-732	3-802	847	14	13-800	15-154	918	19	16-990	24-450	987	17	11-227	5-442	1059*	41	20-190	14-321
12	10-250	22-518	775	25	5-660	4-879	848	12	16-610	15-297	919	10	17-222	24-430	988	17	15-680	5-600	1060	11	22-280	14-270
25	17-783	22-788	776	27	9-214	4-243	849	16	23-016	15-165	920	13	21-964	24-160	989	14	21-615	5-075	1061	19	0-741	15-622
26	18-704	22-298	777	11	9-962	4-472	850	10	25-118	15-370	921	39	23-135	24-520	990	14	5-728	6-218	1062	12	2-850	15-979
4	19-330	22-804	778	10	11-693	4-380	851	10	8-229	16-250	922	11	3-369	25-178	991	18	5-922	6-403	1063	10	14-636	15-150
11	19-548	22-866	779	25	18-566	4-360	852	12	8-594	16-928	923	11	6-232	25-834	992	35	10-362	6-015	1064	18	15-030	15-286
21	3-076	23-004	780	11	25-390	4-150	853	20	10-356	16-384	924	12	6-944	25-147	993	10	13-144	6-656	1065	10	15-030	15-286
11	4-977	23-174	781	23	1-642	5-469	854	22	18-774	16-410	925	24	13-900	25-593	994	16	15-937	6-514	1066	24	1-990	16-700
45	7-103	23-406	782	17	3-172	5-166	855	20	24-241	16-270	926	33	23-297	25-383	995	25	21-067	6-346	1067	33	2-994	16-808
22	9-572	23-516	783	16	10-024	5-830	856	29	25-244	16-400	927	44	25-974	25-296	996	25	19-542	6-781	1068	34	3-302	16-779
17	10-504	23-075	784	10	10-054	5-790	857	22	2-028	17-744	928	10	24-624	25-162	997	14	21-978	6-781	1069	41	8-336	16-466
12	6-148	23-338	785	20	10-094	5-995	858	22	0-228	17-744	929				998	14	21-978	6-781	1070*	41	8-336	16-466
23	6-835	24-311	786	13	14-295	5-460	859	14	0-296	17-475					999	12	8-150	7-676	1071	20	9-716	16-962
17	7-377	24-175	787	21	20-885	5-602	860	17	9-968	17-550					1000	12	10-000	7-230	1072	35	10-690	16-392
16	14-525	24-741	788	40	24-983	5-520	861	10	11-450	17-370					1001	13	14-658	7-379	1073	12	14-061	16-572
8	20-380	24-958	789	10	3-386	6-320	862	29	11-964	17-809					1002*	46	17-586	7-880	1074	10	15-597	16-478
10	21-344	24-201	790	30	5-442	6-058	863	21	13-818	17-084					1003	29	19-542	7-110	1075	25	16-606	16-078
10	23-032	24-439	791	32	19-076	6-590	864	26	16-372	17-675					1004*	42	22-269	7-274	1076	25	16-660	16-473
06	0-214	25-975	792	20	22-006	6-630	865	20	20-385	17-655					1005	10	4-898	8-964	1077	10	16-890	16-759
9	5-350	25-792	793	19	5-316	7-570	866	17	21-894	17-480					1006	12	7-985	8-630	1078	12	19-790	16-210
22	5-506	25-066	794	27	14-104	7-992	867	21	21-976	17-332					1007	10	10-406	8-936	1079	12	22-039	16-868
24	12-477	25-861	795	15	16-344	7-655	868	23	22-470	17-816					1008	34	11-308	8-638	1080*	47	2-444	17-884
14	12-531	25-864	796	14	16-534	7-045	869*	55	24-674	17-464					1009	33	14-046	8-820	1081	22	10-278	17-979
11	16-192	25-610	797	16	17-650	7-672	870	14	0-383	18-292					1010	29	14-650	8-682	1082	17	19-304	17-378
10	24-764	25-399	798	11	19-361	7-120	871	24	0-598	18-850					1011	18	15-314	8-363	1083	27	24-870	17-044
			799	12	0-839	8-872	872	18	2-284	18-177					1012	10	15-724	8-352	1084	28	0-252	18-286
			800	13	10-746	8-878	873	20	2-715	18-002					1013	10	1-408	9-192	1085	15	4-766	18-460
			801	13	15-578	8-802	874	11	20-168	18-293					1014	13	3-320	9-001	1086	40	6-798	18-141
			802	21	19-350	8-390	875	13	0-566	19-255					1015	16	4-171	9-386	1087	29	8-556	18-710
			803	19	20-585	8-264	876	14	0-790	19-514					1016	10	6-732	9-515	1088	12	10-709	18-888
			804	15	25-742	8-602	877	34	3-296	19-710					1017	24	7-138	9-734	1089	28	10-915	18-155
			805	21	11-722	9-594	878	33	3-903	19-766					1018	15	15-870	9-676	1090	10	11-680	18-750
			806	10	13-850	9-377	879	11	8-646	19-450					1019*	39	16-172	9-744	1091	10	14-932	18-339
			807	24	23-462	9-664	880	26	9-994	19-120					1020	25	20-232	9-229	1092	10	20-098	18-460
			808	10	1-582	10-496	881	11	15-034	19-545					1021	22	23-059	9-050	1093	12	20-144	18-528
			809	29	4-188	10-515	882	15	16-272	19-166					1022	30	1-062	10-112	1094	11	24-674	18-382
			810	11	5-004	10-794	883	11	18-060	19-920					1023	23	6-320	10-508	1095	22	6-104	19-896
			811	33	10-122	10-774	884	29	18-510	19-184					1024	12	7-144	10-444	1096	10	11-645	19-260
			812*	14	15-080	10-253	885	13	21-127	19-349					1025	17	7-632	10-296	1097	13	18-137	19-910
			813	22	16-408	10-232	886	13	22-021	19-480					1026	12	8-860	10-368	1098	10	19-724	19-662
			814	23	20-680	10-164	887	19	2-066	20-922					1027	23	12-172	10-152	1099	27	1-008	20-648
			815	25	1-622	11-717	8															

1112	32	16°37'0	21°42'6	1164	17	25°01'4	21°17'4	1236	22	9°68'6	11°18'2	1308	37	6°25'0	22°38'4	1370	20	24°37'0	4°05'4
1113	10	16°53'0	21°42'0	1165	31	25°16'0	21°8'5	1237	14	13°32'8	11°03'8	1309	15	15°27'7	22°06'0	1371	32	3°45'7	5°06'5
1114	14	23°12'3	21°7'2	1166	29	9°01'1	3°18'2	1238	59	13°80'8	11°44'0	1310	10	19°8'10	22°11'0	1372	37	5°44'8	5°27'7
1115	37	1°21'6	22°11'4	1167	10	10°62'8	3°74'2	1239	22	20°30'4	11°94'6	1311	22	21°66'4	22°30'0	1373	42	6°78'9	5°44'2
1116	13	1°50'0	22°20'0	1168	30	14°55'8	3°53'0	1240	14	7°98'0	12°54'9	1312	43	25°50'0	22°81'2	1374	16	8°09'0	5°26'2
1117	24	7°80'0	22°47'0	1169	25	17°85'2	3°58'8	1241	13	14°51'3	12°19'3	1313	15	1°34'2	23°70'0	1375	42	20°75'0	5°28'9
1118	10	9°32'1	22°20'8	1170	11	21°32'8	3°86'6	1242	29	16°10'3	12°49'4	1314	23	1°73'3	23°12'6	1376	12	25°47'4	5°01'6
1119	28	11°61'9	22°66'8	1171	16	21°92'2	3°60'5	1243	14	24°81'8	12°54'4	1315	24	4°08'0	23°93'0	1377	37	1°89'2	6°00'7
1120	11	13°11'6	22°94'1	1172	21	22°30'0	3°17'0	1244	10	1°26'3	13°68'2	1316	29	5°08'2	23°98'2	1378	24	4°49'0	6°05'6
1121	41	16°14'6	22°58'9	1173	11	0°50'4	4°49'8	1245	30	10°74'2	13°06'9	1317	39	6°19'4	23°60'5	1379	18	4°97'0	6°31'0
1122	32	8°66'5	23°38'8	1174	22	6°94'4	4°55'4	1246	10	10°93'2	13°10'7	1318	12	9°21'9	23°31'9	1380	12	5°18'6	6°45'7
1123	14	9°82'7	23°8'2	1175	9	7°40'3	4°28'3	1247	47	13°20'0	13°79'3	1319	19	10°14'0	23°68'0	1381	25	16°63'0	6°02'6
1124	43	15°58'8	23°40'6	1176	12	16°14'9	4°27'7	1248	12	14°38'4	13°03'5	1320	13	10°66'4	23°13'2	1382	22	6°52'0	7°75'8
1125	18	22°65'4	23°71'6	1177	14	10°41'3	4°00'4	1249	12	21°97'8	13°60'0	1321	41	1°46'8	24°09'8	1383	14	7°97'6	7°25'0
1126	38	1°06'8	24°07'0	1178	45	20°08'2	4°04'4	1250	30	20°08'2	14°35'4	1322	49	3°53'8	24°20'4	1384	76	11°32'9	7°00'6
1127	21	3°59'4	24°04'0	1179	13	21°77'8	4°07'0	1251	50	8°06'0	14°55'6	1323	28	7°47'6	24°43'2	1385	22	1°42'2	8°09'0
1128	12	10°32'5	24°76'6	1180	23	23°31'4	4°82'4	1252	40	20°05'5	14°48'4	1324	26	10°13'4	24°96'8	1386	80	1°77'6	8°99'2
1129	10	11°05'0	24°61'0	1181	14	8°07'4	5°21'4	1253	10	20°18'4	14°23'5	1325	20	12°95'4	24°75'2	1387	27	1°82'0	8°15'0
1130	14	22°25'7	24°28'8	1182	26	12°78'6	5°78'4	1254	27	20°46'9	14°80'0	1326	18	14°13'0	24°01'6	1388	16	2°18'6	8°16'5
1131	32	24°38'0	24°68'5	1183	53	15°72'0	5°45'4	1255	18	22°04'4	14°24'0	1327	11	14°23'6	24°00'2	1389	46	3°47'2	8°70'8
1132	40	24°45'2	24°81'3	1184	13	22°70'6	5°47'0	1256	14	23°33'7	14°61'2	1328	100	17°47'6	24°81'4	1390	22	3°80'0	8°10'6
1133	13	24°99'0	24°54'4	1185	47	25°65'3	5°29'0	1257	12	5°66'6	15°66'6	1329	29	18°09'2	24°92'3	1391	12	8°85'2	8°86'0
1134	19	25°94'4	24°60'6	1186	26	0°70'0	6°29'4	1258	12	7°68'0	15°97'6	1330	27	22°37'9	24°67'2	1392	82	10°50'4	8°66'6
1135	33	1°25'0	25°83'0	1187	15	0°88'4	6°30'0	1259	55	8°84'0	15°12'6	1331	43	2°04'5	25°15'0	1393	13	13°81'6	8°29'5
1136	10	2°57'8	25°58'1	1188	47	1°17'4	6°68'7	1260	12	9°71'6	15°00'6	1332	12	2°17'8	25°32'0	1394	22	2°12'9	9°12'6
1137	10	3°79'5	25°08'9	1189	11	3°44'9	6°84'6	1261	23	15°15'0	15°80'2	1333	14	15°02'0	25°74'4	1395	36	5°68'2	9°13'8
1138	10	5°53'9	25°04'0	1190	19	8°15'8	6°41'5	1262	24	18°57'4	15°54'4	1334	24	15°86'0	25°64'0	1396	14	8°33'6	9°17'0
1139	31	9°66'6	25°20'5	1191	13	13°65'6	6°15'2	1263	156	22°51'2	15°16'0	1335	18	17°58'3	25°02'4	1397	19	14°34'6	9°89'0
1140	25	10°66'0	25°44'8	1192	29	17°66'6	6°37'4	1264	30	24°85'7	15°36'6	1336	32	17°64'3	25°52'2	1398	23	15°27'3	9°87'3
1141	35	11°92'2	25°49'4	1193	19	20°13'2	6°67'6	1265	25	3°88'0	16°43'1	1399	22	19°25'0	9°60'4	1399	22	19°25'0	9°60'4
1142	30	15°79'5	25°87'6	1194	23	23°54'2	6°78'8	1266	10	9°10'7	16°54'8	1400	19	1°31'8	10°52'4	1400	19	1°31'8	10°52'4
1143	11	15°81'5	25°87'4	1195	27	6°83'5	7°28'1	1267	13	14°94'0	16°18'6	1401	21	3°29'8	10°05'6	1401	21	3°29'8	10°05'6
1144	10	22°46'0	25°49'3	1196	51	10°60'5	7°45'9	1268	11	15°74'8	16°73'8	1402	14	11°32'0	10°20'6	1402	14	11°32'0	10°20'6
1145	34	23°04'8	25°74'2	1197	38	11°05'3	7°57'0	1269	10	20°54'0	16°48'2	1403	14	12°52'4	10°46'5	1403	14	12°52'4	10°46'5
1146	10	25°07'2	25°91'2	1198	20	14°78'0	7°51'7	1270	14	3°70'0	17°77'1	1404	19	15°22'3	10°00'4	1404	19	15°22'3	10°00'4
				1199	19	15°51'1	7°73'0	1271	14	5°48'4	17°58'2	1405	44	15°27'6	10°52'2	1405	44	15°27'6	10°52'2
				1200	10	16°35'0	7°20'2	1272	31	5°79'4	17°64'2	1406	13	17°07'6	10°03'4	1406	13	17°07'6	10°03'4
				1201	25	16°91'5	7°43'6	1273	24	8°43'0	17°11'1	1407	22	20°15'3	10°80'8	1407	22	20°15'3	10°80'8
				1202	18	20°83'5	7°55'4	1274	29	8°86'0	17°43'0	1408	16	21°21'6	10°06'0	1408	16	21°21'6	10°06'0
				1203	24	21°83'4	7°02'3	1275	21	10°70'2	17°73'1	1409	29	23°99'5	10°67'2	1409	29	23°99'5	10°67'2
				1204	17	22°24'3	7°12'6	1276	10	18°30'0	17°92'7	1410	15	24°05'1	10°41'6	1410	15	24°05'1	10°41'6
				1205	33	22°36'8	7°33'4	1277	34	8°52'6	18°05'0	1411	11	0°30'2	11°08'4	1411	11	0°30'2	11°08'4
				1206	25	25°16'4	7°37'0	1278	30	12°90'0	18°67'6	1412	39	2°54'4	11°93'7	1412	39	2°54'4	11°93'7
				1207	30	25°56'2	7°43'2	1279	146	13°42'9	18°67'9	1413	59	2°37'2	11°95'5	1413	59	2°37'2	11°95'5
				1208	18	25°92'4	7°45'1	1280	12	23°16'2	18°64'2	1414	24	5°16'3	11°14'2	1414	24	5°16'3	11°14'2
				1209	21	1°98'7	8°45'4	1281	10	2°02'4	19°47'0	1415	14	6°83'7	11°05'2	1415	14	6°83'7	11°05'2
				1210	16	5°21'0	8°92'8	1282	13	2°53'2	19°42'2	1416	38	9°74'2	11°05'3	1416	38	9°74'2	11°05'3
				1211	24	5°28'6	8°44'6	1283	13	5°64'5	19°44'6	1417	17	17°37'8	11°43'4	1417	17	17°37'8	11°43'4
				1212	10	8°42'9	8°32'8	1284	26	6°02'0	19°16'8	1418	22	17°74'6	11°83'4	1418	22	17°74'6	11°83'4
				1213	23	10°39'3	8°31'6	1285	15	10°02'0	19°83'6	1419	32	18°90'0	11°99'0	1419	32	18°90'0	11°99'0
				1214	12	11°37'6	8°07'2	1286	14	10°42'8	19°74'1	1420	20	19°35'4	11°28'2	1420	20	19°35'4	11°28'2
				1215	28	10°05'6	8°75'4	1287	57	12°13'0	19°48'6	1421	14	20°37'8	11°52'4	1421	14	20°37'8	11°52'4
				1216	10	20°53'9	8°77'2	1288	16	14°16'0	19°06'8	1422	13	23°09'9	11°33'6	1422	13	23°09'9	11°33'6
				1217	13	22°14'9	8°23'0	1289	10	17°61'4	19°58'4	1423	38	8°02'6	12°60'1	1423	38	8°02'6	12°60'1
				1218	78	25°51'8	8°27'6	1290	12	4°22'0	20°16'4	1424	59	11°80'4	12°32'4	1424	59	11°80'4	12°32'4
				1219	25	25°85'9	8°41'3	1291	25	12°49'6	20°19'0	1425	14	12°74'0	12°55'4	1425	14	12°74'0	12°55'4
				1220	14	24°58	9°75'8	1292	26	12°87'8	20°02'7	1426	48	17°35'2	12°28'6	1426	48	17°35'2	12°28'6
				1221	11	15°13'5	9°01'3	1293	10	13°23'6	20°79'2	1427	17	24°03'8	12°28'6	1427	17	24°03'8	12°28'6
				1222	45	16°05'8	9°15'2	1294	20	17°12'6	20°19'4	1428	17	1°12'8	13°26'8	1428	17	1°12'8	13°26'8
				1223	12	16°21'6	9°00'5	1295	21	17°67'6	20°57'4	1429	21	6°75'5	13°18'2	1429	21	6°75'5	13°18'2
				1224	26	23°15'0	9°07'6	1296	21	18°67'9	20°73'7	1430	39	11°82'8	13°45'8	1430	39	11°82'8	13°45'8
				1225	22	25°03'4	9°00'0	1297	15	20°45'5	20°15'7	1431	37	6°49'2	20°95'5	1431	37	6°49'2	20°95'5
				1226	10	22°70'2	10°81'1	1298	10	33°79'3	20°46'0	1432	12	17°93'9	13°06'6	1432	12	17°93'9	13°06'6
				1227	29	7°65'2	10°33'1	1299	14	2°18'2	21°12'7								



R.A. 0 <sup>h</sup> 56 <sup>m</sup>				R.A. 1 <sup>h</sup> 4 <sup>m</sup>			
Plate 2116; 1923 Dec. 9.				Plate 2108; 1923 Dec. 7.			
Provisional Constants.				Provisional Constants.			
A		B		A		B	
+00072		+00426		+00072		+00866	
C		D		C		D	
-38993		E		-4483		E	
F		Mag.		F		Mag.	
-00426 +00070 -3589		16-9-0.94√d		-00805 +00085 -3881		15-8-0.94√d	
No.	d	x	y	No.	d	x	y
1442	17	9°095	16°150	1751	11	0°733	0°794
1443	31	20°531	16°274	1752	34	8°621	0°609
1444	18	2°065	17°749	1753	12	9°647	0°583
1445	17	4°168	17°800	1754	32	19°994	0°036
1446	22	9°266	17°026	1755	28	22°724	0°772
1447	15	10°742	17°792	1756	65	22°070	0°322
1448	13	17°523	17°855	1757	25	2°371	1°344
1449	15	18°504	17°074	1758	37	8°125	1°268
1450	38	16°472	18°232	1759	36	17°136	1°324
1451	18	16°586	18°862	1760	16	22°880	1°545
1452	57	19°215	18°215	1761	10	25°051	1°592
1453	19	12°172	19°225	1762	30	1°746	2°150
1454	24	14°078	19°764	1763	33	10°093	2°775
1455	21	14°178	19°618	1764	13	11°330	2°404
1456	35	19°142	19°453	1765	13	25°900	2°855
1457	20	19°327	19°032	1766	67	1°220	3°868
1458	23	20°980	19°675	1767	30	6°397	3°373
1459	12	21°020	19°636	1768	14	4°055	4°704
1460	57	4°255	20°393	1769	32	0°312	5°800
1461	19	4°682	20°188	1770	22	13°454	5°628
1462	15	6°275	20°546	1771	13	18°888	5°871
1463	24	9°810	20°800	1772	18	21°832	5°778
1464	14	10°760	20°887	1773	15	22°610	5°872
1465	30	11°284	20°772	1774	43	0°950	6°939
1466	28	22°600	20°795	1775	10	3°379	6°198
1467	20	23°303	20°180	1776	11	4°800	6°415
1468	46	14°360	21°478	1777	14	5°145	6°730
1469	12	15°390	21°200	1778	23	5°880	6°126
1470	39	17°703	21°836	1779	24	6°790	6°124
1471	18	17°796	21°873	1780	20	7°105	6°688
1472	32	21°306	21°667	1781	20	10°645	6°740
1473	24	23°571	21°282	1782	34	1°952	7°932
1474	16	2°315	22°304	1783	33	6°049	7°348
1475	13	2°881	22°845	1784	18	7°209	7°116
1476	37	3°300	22°686	1785	31	10°048	7°786
1477	32	5°710	22°904	1786	29	13°311	7°318
1478	37	9°592	22°492	1787	26	14°840	7°318
1479	15	12°076	22°755	1788	15	9°126	8°451
1480	39	16°982	22°852	1789	10	9°662	8°078
1481	18	18°762	22°150	1790	14	12°804	8°748
1482	21	24°626	22°200	1791	13	18°370	8°602
1483	17	24°638	22°205	1792	29	18°844	8°885
1484	44	1°908	23°530	1793	34	18°934	8°208
1485	21	9°283	23°723	1794	19	0°050	9°952
1486	35	13°658	23°316	1795	12	12°465	9°580
1487	38	15°030	23°848	1796	10	9°224	10°815
1488	16	19°322	23°345	1797	22	10°514	10°283
1489	16	19°754	23°496	1798	17	10°514	10°832
1490	25	20°170	23°448	1799	31	17°948	10°936
1491	24	5°065	24°163	1800	17	11°402	10°474
1492	40	5°202	24°289	1801	15	25°188	10°720
1493	21	7°800	24°305	1802	32	18°018	11°896
1494	17	8°646	24°102	1803	10	4°540	12°810
1495	16	8°666	24°646	1804	10	8°243	12°993
1496	48	17°442	24°458				
1497	18	20°198	24°375				
1498	48	21°104	24°755				
1499	57	21°550	24°902				
1500	24	21°076	24°281				
1501	62	25°126	24°058				
1502	21	0°750	25°490				
1503	16	5°468	25°625				
1504	32	6°372	25°044				
1505	28	7°296	25°624				
1506	16	10°266	25°444				
1507	22	10°734	25°100				
1508	19	13°452	25°834				
1509	18	20°643	25°428				
1510	34	25°900	25°834				
1606	16	20°607	7°053	1607	15	18°905	18°905
1607	18	21°034	7°326	1608	23	21°336	7°866
1608	23	21°336	7°866	1609	30	24°304	7°884
1609	30	24°304	7°884	1610	14	0°900	8°262
1610	14	0°900	8°262	1611	27	9°040	8°744
1611	27	9°040	8°744	1612	16	11°636	8°724
1612	16	11°636	8°724	1613	13	12°374	8°590
1613	13	12°374	8°590	1614	25	15°652	8°678
1614	25	15°652	8°678	1615	39	15°746	8°544
1615	39	15°746	8°544	1616	60	4°955	9°274
1616	60	4°955	9°274	1617	20	5°016	9°584
1617	20	5°016	9°584	1618	13	12°847	9°706
1618	13	12°847	9°706	1619	27	22°366	9°868
1619	27	22°366	9°868	1620	34	1°862	10°832
1620	34	1°862	10°832	1621	23	1°916	10°576
1621	23	1°916	10°576	1622	15	11°348	10°625
1622	15	11°348	10°625	1623	22	11°792	10°736
1623	22	11°792	10°736	1624	21	20°745	10°716
1624	21	20°745	10°716	1625	17	0°988	10°864
1625	17	0°988	10°864	1626	18	0°975	11°506
1626	18	0°975	11°506	1627	20	1°314	11°864
1627	20	1°314	11°864	1628	14	4°362	11°215
1628	14	4°362	11°215	1629	27	6°567	11°711
1629	27	6°567	11°711	1630	17	13°884	11°649
1630	17	13°884	11°649	1631	16	18°744	11°540
1631	16	18°744	11°540	1632	28	20°246	11°144
1632	28	20°246	11°144	1633	20	1°924	12°443
1633	20	1°924	12°443	1634	18	4°186	12°514
1634	18	4°186	12°514	1635	39	4°442	12°176
1635	39	4°442	12°176	1636	24	5°360	12°387
1636	24	5°360	12°387	1637	38	10°783	12°058
1637	38	10°783	12°058	1638	24	11°541	12°574
1638	24	11°541	12°574	1639	13	12°374	12°268
1639	13	12°374	12°268	1640	42	14°402	12°478
1640	42	14°402	12°478	1641	30	14°814	12°308
1641	30	14°814	12°308	1642	37	20°668	12°304
1642	37	20°668	12°304	1643	19	21°328	12°148
1643	19	21°328	12°148	1644	25	2°900	13°767
1644	25	2°900	13°767	1645	14	10°450	13°562
1645	14	10°450	13°562	1646	38	11°092	13°048
1646	38	11°092	13°048	1647	23	14°702	13°286
1647	23	14°702	13°286	1648	15	15°044	13°035
1648	15	15°044	13°035	1649	33	15°458	13°414
1649	33	15°458	13°414	1650	22	19°244	13°536
1650	22	19°244	13°536	1651	28	19°734	13°787
1651	28	19°734	13°787	1652	24	22°697	13°286
1652	24	22°697	13°286	1653	31	23°390	13°372
1653	31	23°390	13°372	1654	18	1°474	14°414
1654	18	1°474	14°414	1655	23	12°004	14°484
1655	23	12°004	14°484	1656	62	16°272	14°354
1656	62	16°272	14°354	1657	28	16°980	14°348
1657	28	16°980	14°348	1658	79	16°987	14°358
1658	79	16°987	14°358	1659	31	18°094	14°674
1659	31	18°094	14°674	1660	14	25°398	14°236
1660	14	25°398	14°236	1661	20	8°071	15°608
1661	20	8°071	15°608	1662	17	9°828	15°242
1662	17	9°828	15°242	1663	15	11°984	15°165
1663	15	11°984	15°165	1664	29	21°702	15°526
1664	29	21°702	15°526	1665	37	9°676	16°124
1665	37	9°676	16°124	1666	13	11°620	16°307
1666	13	11°620	16°307	1667	16	18°151	16°405
1667	16	18°151	16°405	1668	27	7°506	17°784
1668	27	7°506	17°784	1669	30	8°938	17°341
1669	30	8°938	17°341	1670	21	9°136	17°676
1670	21	9°136	17°676	1671	18	9°928	17°064
1671	18	9°928	17°064	1672	38	10°491	17°712
1672	38	10°491	17°712	1673	23	15°724	17°884
1673	23	15°724	17°884	1674	32	19°523	17°755
1674	32	19°523	17°755	1675	26	20°023	17°888
1675	26	20°023	17°888	1676	21	6°760	18°869
1676	21	6°760	18°869	1677	15	6°958	18°905



1806	13	13°590	12°664	1878	19	12°751	23°046	1930	19	25°190	4°130	2002	13	22°234	14°196	<b>R.A. 1<sup>h</sup> 20<sup>m</sup></b> Plate 2099; 1923 Dec. 4. <i>Provisional Constants.</i> A B C $+0.0058 +0.0056 -0.0002$ D E F $-0.0050 +0.0075 -0.0084$ $Mag.=16.8-0.94\sqrt{d}$
1807	15	15°382	12°472	1879	43	15°158	23°101	1931	22	6°412	5°710	2003	13	23°900	14°390	
1808	10	15°625	12°988	1880	12	21°720	23°810	1932	19	6°884	5°972	2004	10	2°553	15°048	
1809	11	22°580	12°379	1881	41	0°470	24°910	1933*	42	9°254	5°699	2005	18	6°820	15°850	
1810	13	0°437	13°364	1882	13	1°035	24°556	1934	18	12°780	5°100	2006	12	7°220	15°233	
1811	29	1°130	13°436	1883	34	4°885	24°449	1935	21	13°260	5°527	2007*	57	8°556	15°726	
1812*	51	4°266	13°840	1884	13	8°456	24°321	1936	29	14°411	5°258	2008	18	13°688	15°616	
1813	12	7°982	13°282	1885	31	9°724	24°102	1937	10	17°320	5°320	2009	9	14°860	15°060	
1814	11	9°700	13°930	1886	10	10°788	24°052	1938	19	18°638	5°120	2010	21	18°476	15°828	
1815*	32	11°409	13°203	1887	34	10°945	24°101	1939	10	20°624	5°700	2011	14	25°600	15°570	
1816	10	12°837	13°148	1888	10	12°280	24°682	1940*	46	21°282	5°816	2012	10	2°925	16°804	<b>R.A. 1<sup>h</sup> 21<sup>m</sup></b> Plate 2117; 1923 Dec. 9. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1817	30	12°990	13°370	1889	32	16°576	24°883	1941	23	0°196	6°166	2013	20	3°300	16°115	
1818	10	15°001	13°670	1890	11	16°957	24°770	1942	19	3°658	6°904	2014	20	10°151	16°090	
1819	10	20°015	13°530	1891	32	21°490	24°312	1943	20	6°433	6°840	2015*	58	12°534	16°661	
1820	21	24°158	13°242	1892	35	0°180	25°108	1944	16	12°250	6°693	2016	18	18°274	16°880	
1821	10	1°678	14°532	1893	44	1°101	25°150	1945	17	15°932	6°660	2017	10	19°790	16°040	
1822*	39	10°476	14°342	1894	31	3°974	25°850	1946	23	21°582	6°043	2018	15	23°759	16°230	
1823	10	14°319	14°716	1895	31	10°468	25°970	1947	10	25°540	6°017	2019	16	3°848	17°062	
1824	12	19°425	14°642	1896	10	10°836	25°178	1948	9	4°630	7°616	2020	14	4°836	17°958	
1825*	39	5°643	15°104	1897	10	14°390	25°522	1949	11	5°308	7°254	2021	22	6°778	17°698	
1826	24	8°274	15°061	1898	41	22°822	25°341	1950	21	5°768	7°402	2022	17	7°620	17°672	<b>R.A. 1<sup>h</sup> 22<sup>m</sup></b> Plate 2135; 1923 Dec. 11. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1827	15	25°558	15°860	1899	15	23°752	25°886	1951	12	9°148	7°690	2023	14	12°701	17°980	
1828	31	3°822	16°112					1952	35	12°063	7°817	2024	9	20°452	17°684	
1829	25	5°876	16°264					1953	10	15°140	7°878	2025	19	0°224	18°026	
1830	13	7°226	16°034					1954	28	24°994	7°544	2026	27	0°430	18°710	
1831	30	9°465	16°794					1955	10	3°820	8°930	2027	18	1°106	18°575	
1832	10	5°153	17°002					1956	30	6°860	8°032	2028	19	1°640	18°260	
1833	10	10°370	17°038					1957	30	11°355	8°396	2029*	32	4°109	18°386	
1834	10	17°370	17°596					1958	12	12°506	8°475	2030	29	5°453	18°370	
1835	10	18°358	17°972					1959	10	12°668	8°967	2031	13	10°786	18°769	
1836*	35	21°020	17°694					1960	26	17°394	8°315	2032	20	19°930	18°065	<b>R.A. 1<sup>h</sup> 23<sup>m</sup></b> Plate 2153; 1923 Dec. 13. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1837	17	23°865	17°990					1961	11	10°326	9°908	2033	21	3°546	19°316	
1838	22	4°580	18°086					1962	24	10°538	9°886	2034	16	4°125	19°576	
1839	10	7°363	18°438					1963	21	14°034	9°646	2035	20	11°146	19°354	
1840	19	9°764	18°957					1964*	39	15°482	9°582	2036	13	12°707	19°772	
1841	10	10°742	18°360					1965	13	16°484	9°164	2037	17	14°734	19°334	
1842*	35	18°726	18°821					1966	16	16°684	9°054	2038	16	5°100	20°056	
1843	18	22°440	18°633					1967	10	19°650	9°185	2039	9	7°521	20°296	
1844	30	22°657	18°421					1968	18	20°800	9°510	2040	15	11°774	20°448	
1845	14	23°418	18°298					1969	10	23°026	9°505	2041	12	18°740	20°230	
1846	12	4°604	19°898					1970	19	21°268	9°758	2042	14	23°323	20°870	<b>R.A. 1<sup>h</sup> 24<sup>m</sup></b> Plate 2171; 1923 Dec. 15. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1847	37	6°174	19°787					1971	10	2°562	10°938	2043	44	24°602	20°400	
1848	21	6°235	19°574					1972	21	2°849	10°970	2044	24	3°395	21°143	
1849	28	6°648	19°269					1973	15	3°424	10°368	2045	21	5°960	21°722	
1850	37	6°846	19°234					1974	12	11°596	10°758	2046	30	6°508	21°698	
1851	15	7°906	19°860					1975	27	17°894	10°370	2047	43	20°922	21°680	
1852	11	9°552	19°308					1976	10	0°130	11°051	2048	14	22°260	21°520	
1853	14	11°729	19°013					1977	17	4°148	11°907	2049	14	2°792	22°756	
1854*	34	13°511	19°080					1978	15	12°744	11°976	2050	13	3°160	22°486	
1855	10	20°727	19°020					1979	17	21°888	11°680	2051	11	4°162	22°359	
1856	15	25°755	19°077					1980	18	22°200	11°393	2052	62	8°318	22°560	<b>R.A. 1<sup>h</sup> 25<sup>m</sup></b> Plate 2189; 1923 Dec. 17. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1857	12	2°757	20°414					1981	9	22°472	11°874	2053	37	17°906	22°136	
1858	23	4°900	20°256					1982	16	0°266	12°670	2054	15	20°859	22°192	
1859	29	7°298	20°520					1983	14	3°692	12°138	2055	15	1°870	23°146	
1860	33	11°768	20°540					1984	17	6°166	12°976	2056	15	12°850	23°732	
1861	17	2°918	21°395					1985	14	6°816	12°455	2057	10	13°515	23°326	
1862	15	4°478	21°503					1986	21	7°522	12°232	2058	13	18°930	23°617	
1863	10	6°707	21°248					1987*	42	10°791	12°739	2059	27	21°270	23°082	
1864	10	6°959	21°464					1988	12	15°680	12°625	2060	28	25°110	23°753	
1865	40	10°458	21°032					1989	31	16°024	12°354	2061	51	6°294	24°388	<b>R.A. 1<sup>h</sup> 26<sup>m</sup></b> Plate 2207; 1923 Dec. 19. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1866	18	11°671	21°198					1990*	48	20°890	12°266	2062	41	13°041	24°454	
1867	19	18°590	21°370					1991	12	22°134	12°510	2063	40	13°090	24°252	
1868	19	25°570	21°200					1992	10	22°199	12°560	2064	34	18°174	24°146	
1869	55	7°304	22°410					1993	23	23°204	12°340	2065	40	20°725	24°144	
1870	15	7°446	22°987					1994	8	1°776	13°873	2066	21	21°890	24°766	
1871	10	9°112	22°453					1995	22	1°858	13°510	2067	56	0°708	25°630	
1872	16	10°782	22°472					1996	16	8°665	13°986	2068	62	6°914	25°334	
1873	10	24°019	22°878					1997	16	9°320	13°134	2069	25	7°308	25°436	
1874	10	24°944	22°500					1998	23	15°990	13°910	2070	22	9°932	25°912	<b>R.A. 1<sup>h</sup> 27<sup>m</sup></b> Plate 2223; 1923 Dec. 21. <i>Provisional Constants.</i> A B C $+0.0128 +0.1115 -0.5320$ D E F $-0.1055 +0.0096 -0.2947$ $Mag.=16.7-0.94\sqrt{d}$
1875	10	0°418	23°203					1999	25	24°472	13°572	2071	13	12°860	25°500	
1876	10	2°112	23°514					2000	22	16°677	14°244	2072	25	19°510	25°350	
1877	24	6°636	23°314					2001	15	18°426	14°112					

2156	21	0°015	11°576	2228	23	24°764	20°336	2319	40	10°996	3°216	2391	37	13°690	15°366	R.A. 1 <sup>h</sup> 36 <sup>m</sup>
2157	40	4°221	11°869	2229	19	24°854	20°108	2320	25	11°595	3°518	2392	13	15°274	15°742	
2158	27	7°925	11°720	2230	18	0°112	21°705	2321	23	11°775	3°675	2393	12	19°295	15°732	Plate 1448; 1919 Oct. 26.
2159	15	8°080	11°536	2231	22	1°174	21°052	2322	28	16°196	3°412	2394	18	19°740	15°946	
2160	12	8°634	11°101	2232	15	6°846	21°744	2323	10	19°855	3°330	2395	10	20°230	15°166	Provisional Constants.
2161	22	14°734	11°926	2233	26	16°735	21°205	2324	33	20°778	3°808	2396	40	13°706	16°602	
2162	23	25°186	11°700	2234	24	20°832	21°335	2325	20	7°310	5°566	2397	19	16°957	16°056	A B C
2163	15	0°024	12°745	2235	24	23°512	21°940	2326	31	9°171	5°055	2398	11	21°130	16°410	
2164	26	1°024	12°522	2236	19	23°964	21°410	2327	11	12°250	5°427	2399	20	22°808	16°505	-01740 +00850 -0502
2165	92	6°012	12°038	2237	14	0°378	22°814	2328	13	14°417	5°030	2400	13	0°683	17°700	
2166	28	19°321	12°756	2238	26	13°111	22°164	2329	12	14°763	5°863	2401	14	2°503	17°710	D E F
2167	17	19°420	12°904	2239	26	14°690	22°121	2330	15	20°498	5°835	2402	23	7°560	17°086	
2168	16	22°141	12°976	2240	23	17°014	22°756	2331	12	7°460	6°923	2403	19	11°928	17°392	-00879 -01766 -1808
2169	37	25°062	12°670	2241	22	18°826	22°638	2332	15	7°877	6°998	2404	20	13°055	17°505	
2170	25	2°296	13°750	2242	84	19°922	22°919	2333	11	10°609	6°390	2405	12	19°040	17°025	Mag. = 16.4 - 0.94√d
2171	58	5°140	13°348	2243	54	21°770	22°913	2334	24	11°075	6°172	2406	10	25°238	17°653	
2172	20	9°372	13°925	2244	37	2°966	23°033	2335	16	12°334	6°272	2407	12	5°275	18°705	No. d x y
2173	17	17°910	13°228	2245	24	14°484	23°636	2336	14	13°086	6°794	2408	15	9°036	18°795	
2174	50	21°960	13°566	2246	34	20°556	23°286	2337	19	21°165	6°317	2409	10	3°014	19°780	38 12°530 0°504
2175	18	0°062	14°384	2247	38	21°670	23°716	2338	13	23°507	6°138	2410	12	4°628	19°618	502 16 13°148 0°086
2176	16	1°277	14°572	2248	54	4°597	24°981	2339	13	25°382	6°728	2411	12	8°296	19°346	503 15 14°374 0°483
2177	30	8°822	14°082	2249	44	8°234	24°828	2340	17	5°655	7°260	2412	13	20°371	19°336	504 11 17°890 0°738
2178	22	12°974	14°204	2250	14	9°350	24°655	2341	17	8°770	7°388	2413	16	0°078	20°786	505 14 23°104 0°640
2179	22	14°949	14°164	2251	27	10°206	24°806	2342	11	9°828	7°158	2414	14	2°648	20°440	506 10 6°474 1°076
2180	11	19°950	14°028	2252	13	10°950	24°120	2343	10	12°422	7°367	2415	11	2°734	20°212	507 46 10°151 1°010
2181	20	3°434	15°744	2253	51	23°812	24°578	2344	40	12°756	7°776	2416	10	3°644	20°872	508 16 13°776 1°306
2182	58	11°184	15°926	2254	21	24°618	24°748	2345	63	15°548	7°056	2417	14	4°536	20°866	509 14 18°141 1°837
2183	21	22°076	15°905	2255	13	3°958	25°720	2346	13	16°320	7°256	2418	14	10°321	20°890	510 60 22°700 1°720
2184	23	1°594	16°414	2256	38	8°478	25°542	2347	38	19°540	7°278	2419	12	12°072	20°352	511 13 0°452 2°680
2185	20	4°462	16°615	2257	22	10°388	25°375	2348	30	23°040	7°928	2420	10	12°634	20°104	512 20 2°589 2°328
2186	13	4°927	16°258	2258	9	16°810	25°076	2349	12	24°028	7°748	2421	17	14°850	20°104	513 22 16°788 2°846
2187	36	6°434	16°374	2259	42	19°212	25°024	2350	14	1°360	8°446	2422	20	20°390	20°020	514 47 1°799 3°009
2188	11	7°164	16°040	2260	39	22°075	25°147	2351	13	3°681	8°454	2423	14	1°882	21°540	515 23 6°960 3°680
2189	22	8°054	16°722					2352	51	7°950	8°260	2424	24	4°891	21°905	516 12 12°512 3°074
2190	23	14°384	16°506					2353	14	11°555	8°570	2425	19	6°748	21°296	517 11 12°710 3°730
2191	20	16°326	16°784					2354	14	14°244	8°366	2426	24	13°808	21°822	518 15 14°082 3°339
2192	15	17°824	16°555					2355	21	17°904	8°176	2427	11	15°896	21°182	519 10 14°786 3°171
2193	20	24°400	16°661					2356	12	17°078	8°180	2428	26	17°032	21°484	520 12 19°053 3°941
2194	15	10°681	17°645					2357	45	10°710	8°986	2429	15	11°446	22°081	521 15 22°505 3°516
2195	16	14°194	17°685					2358	18	20°500	8°387	2430	12	6°254	22°756	522 25 17°172 4°754
2196	17	17°808	17°619					2359	40	21°326	8°410	2431	40	7°591	22°490	523 19 17°334 4°021
2197	18	18°480	17°566					2360	23	25°020	8°448	2432	34	14°386	22°577	524 20 24°810 4°842
2198	15	19°420	17°051					2361	11	4°900	9°055	2433	11	21°475	22°182	525 12 5°074 5°456
2199	37	19°562	17°634					2362	26	10°485	9°244	2434	15	8°290	23°738	526 27 11°088 5°692
2200	18	22°881	17°535					2363	14	11°365	9°205	2435	57	12°720	23°714	527 23 13°650 5°330
2201	23	24°700	17°600					2364	14	21°304	9°218	2436	40	19°270	23°789	528 10 19°391 5°748
2202	38	4°874	18°205					2365	25	8°210	10°324	2437	20	22°201	23°694	529 26 19°729 5°688
2203	14	6°766	18°357					2366	24	8°275	10°550	2438	55	22°634	23°788	530 22 23°276 5°288
2204	58	11°015	18°206					2367	15	9°753	10°606	2439	56	23°928	23°848	531 16 1°620 6°462
2205	24	13°675	18°927					2368	15	2°810	11°800	2440	40	1°820	24°709	532 18 9°598 6°302
2206	15	3°814	19°276					2369	11	6°205	11°012	2441	15	2°640	24°855	533 20 10°610 6°910
2207	24	5°278	19°164					2370	15	10°385	11°385	2442	40	10°294	24°190	534 31 11°822 6°188
2208	20	6°504	19°324					2371	10	17°112	11°845	2443	15	17°060	24°594	535 17 12°450 6°448
2209	14	7°286	19°774					2372	24	20°977	11°620	2444	42	22°565	24°355	536 22 19°942 6°598
2210	17	7°980	19°986					2373	11	22°228	11°682	2445	23	22°663	24°234	537 23 19°942 6°598
2211	20	10°534	19°115					2374	38	23°714	11°918	2446	17	24°274	24°720	538 14 20°538 6°850
2212	37	13°974	19°114					2375	26	24°930	11°776	2447	30	0°106	25°330	539 14 3°460 7°037
2213	12	13°034	19°040					2376	24	3°614	12°745	2448	12	4°405	25°208	540 31 5°930 7°680
2214	15	15°776	19°912					2377	30	8°145	12°917	2449	60	5°155	25°205	541 28 1°162 8°224
2215	24	17°462	19°528					2378	13	12°030	12°475	2450	40	5°304	25°024	542 13 2°135 8°040
2216	14	18°972	19°250					2379	20	18°425	13°214	2451	13	6°585	25°015	543 27 3°110 8°728
2217	100	21°597	19°325					2380	12	22°645	13°736	2452	42	7°982	25°154	544 15 5°470 8°486
2218	42	2°444	20°576					2381	22	25°918	13°968	2453	40	13°369	25°589	545 14 21°384 8°492
2219	29	4°202	20°334					2382	15	3°722	14°532	2454	13	14°675	25°606	546 13 21°732 8°493
2220	36	4°293	20°740					2383	160	3°782	14°594	2455	24	15°868	25°456	547 12 22°930 8°102
2221	17	6°032	20°506					2384	21	4°268	14°382	2456	10	16°259	25°310	548 15 23°552 8°816
2222	37	11°485	20°796					2385	11	7°120	14°378	2457	29	18°986	25°058	549 11 5°240 9°186
2223	14	15°256	20°599					2386	13	7°141	14°390	2458	14	19°333	25°366	550 24 8°005 9°508
2224	15	18°514	20°810					2387	13	7°148	14°866	2459	13	19°626	25°984	551 27 8°850 9°252
2225	18	20°086	20°315					2388	38	22°345	14°090	2460	38	20°189	25°182	552 15 15°020 9°720
2226	37	21°296	20°500					2389	19	24°255	14°184	2461	10	21°899	25°466	553 19 17°800 9°879
2227	20	22°184	20°600					2390	11	9°734	15°627					554 19 19°234 9°197
																555 16 19°248 9°198

2556	10	21°41'0"	9°749"	2628	10	16°734"	22°480"	2720	37	13°522"	2°126"	2792	11	1°738"	9°720"	2864	35	4°500"	20°568"
2557	12	23°820"	9°690"	2629	14	19°417"	22°850"	2721	41	13°722"	2°178"	2793	10	2°234"	9°615"	2865	9	4°852"	20°148"
2558	14	24°530"	9°378"	2630	16	24°009"	22°316"	2722	29	15°064"	2°060"	2794	15	2°460"	9°396"	2866	17	5°046"	20°100"
2559	117	7°571"	10°003"	2631	17	0°400"	23°710"	2723	27	17°340"	2°720"	2795	12	4°383"	9°800"	2867	12	7°142"	20°610"
2560	27	12°242"	10°511"	2632	48	0°820"	23°800"	2724	12	17°868"	2°830"	2796	10	5°400"	9°904"	2868	12	7°826"	20°005"
2561*	41	14°158"	10°642"	2633	52	2°088"	23°852"	2725	10	18°900"	2°775"	2797	11	13°384"	9°940"	2869	21	8°481"	20°948"
2562	10	17°566"	10°365"	2634	38	5°618"	23°586"	2726	25	19°595"	2°888"	2798	11	14°200"	9°930"	2870	10	8°619"	20°174"
2563	31	18°760"	10°558"	2635	34	7°218"	23°802"	2727	14	19°955"	2°864"	2799	22	20°180"	9°949"	2871	20	8°608"	20°031"
2564	40	19°042"	10°514"	2636	24	8°021"	23°528"	2728	16	20°888"	2°900"	2800	19	24°128"	9°979"	2872	22	14°020"	20°780"
2565	10	24°432"	10°632"	2637	15	8°216"	23°330"	2729	10	20°405"	3°444"	2801	14	7°939"	10°038"	2873	12	16°500"	20°044"
2566	10	0°382"	11°842"	2638	20	8°392"	23°898"	2730	27	8°201"	3°385"	2802	10	9°535"	10°524"	2874	30	17°504"	20°490"
2567	33	7°300"	11°440"	2639	26	10°131"	23°010"	2731	10	8°230"	3°396"	2803	24	11°801"	10°077"	2875	9	18°504"	20°876"
2568	12	13°492"	11°740"	2640	35	10°774"	23°018"	2732	29	11°414"	3°968"	2804*	32	22°838"	10°420"	2876	29	19°546"	20°386"
2569	22	15°818"	11°946"	2641	11	12°368"	23°588"	2733	11	12°360"	3°618"	2805	11	24°220"	10°970"	2877	47	21°030"	20°358"
2570	31	22°047"	11°571"	2642	20	17°332"	23°722"	2734	12	15°122"	3°985"	2806	13	1°368"	11°778"	2878	11	22°710"	20°854"
2571	12	23°379"	11°705"	2643	10	17°724"	23°382"	2735*	42	16°752"	3°504"	2807	14	5°344"	11°900"	2879	9	8°110"	21°726"
2572*	39	1°840"	12°139"	2644	15	19°860"	23°668"	2736	10	17°100"	3°150"	2808	24	6°442"	11°475"	2880	20	8°243"	21°602"
2573	15	9°120"	12°694"	2645	37	0°754"	24°360"	2737	23	19°724"	3°088"	2809	10	10°575"	11°105"	2881	40	11°092"	21°113"
2574	30	10°842"	12°228"	2646	23	0°854"	24°240"	2738	20	20°488"	3°820"	2810	10	11°126"	11°770"	2882	57	12°130"	21°060"
2575	11	14°148"	12°440"	2647	19	2°440"	24°710"	2739	14	22°798"	3°056"	2811	10	18°540"	11°229"	2883	21	14°437"	21°102"
2576	10	14°938"	12°498"	2648	25	7°267"	24°712"	2740	30	23°225"	3°500"	2812	21	22°950"	11°265"	2884	28	15°760"	21°946"
2577	19	17°283"	12°710"	2649	13	10°450"	24°168"	2741	11	24°220"	3°534"	2813	11	8°820"	12°750"	2885	28	16°636"	21°807"
2578	17	18°629"	12°238"	2650	11	11°808"	24°060"	2742	8	14°446"	4°126"	2814	13	8°834"	12°726"	2886	26	18°345"	21°105"
2579	10	18°900"	12°242"	2651	23	20°621"	24°960"	2743	22	2°700"	4°774"	2815	19	10°872"	12°886"	2887	10	23°084"	21°422"
2580	20	20°434"	12°712"	2652	17	21°332"	24°450"	2744	12	8°738"	4°136"	2816	28	18°881"	12°860"	2888	24	24°450"	21°200"
2581	10	5°885"	13°667"	2653	11	23°704"	24°751"	2745*	66	9°734"	4°550"	2817	14	19°954"	12°926"	2889	14	1°291"	22°140"
2582	21	9°226"	13°245"	2654	13	5°122"	25°840"	2746	20	17°792"	4°910"	2818	13	17°560"	13°034"	2890	15	1°614"	22°176"
2583	18	10°466"	13°214"	2655	26	13°558"	25°953"	2747	23	20°792"	4°573"	2819	10	19°592"	13°056"	2891	20	2°052"	22°578"
2584	28	17°890"	13°619"	2656	15	13°758"	25°044"	2748	16	24°284"	4°130"	2820	25	1°558"	14°016"	2892	12	6°221"	22°646"
2585	29	19°640"	13°850"					2749	16	24°960"	4°614"	2821	10	3°277"	14°564"	2893	14	6°786"	22°144"
2586*	56	19°650"	13°897"					2750	25	1°140"	5°244"	2822	10	5°086"	14°202"	2894	44	14°156"	22°450"
2587	27	23°604"	13°907"					2751	20	5°116"	5°730"	2823	13	5°500"	14°427"	2895	10	15°963"	22°355"
2588*	37	0°500"	14°280"					2752	33	6°146"	5°852"	2824	22	7°435"	14°038"	2896	34	16°276"	22°217"
2589	21	2°382"	14°362"					2753	18	8°954"	5°060"	2825	18	13°514"	14°914"	2897	23	14°990"	22°176"
2590	21	4°012"	14°142"					2754	16	10°303"	5°660"	2826	9	19°540"	14°158"	2898	11	6°376"	23°870"
2591	22	7°150"	14°619"					2755	22	11°472"	5°764"	2827	13	22°271"	14°278"	2899	11	6°505"	23°109"
2592	26	8°065"	14°207"					2756	24	12°410"	5°674"	2828	21	17°220"	15°940"	2900	41	9°980"	23°150"
2593	12	8°654"	14°080"					2757	10	13°234"	5°087"	2829	14	2°614"	15°658"	2901	10	14°994"	23°432"
2594	18	8°842"	14°111"					2758	30	13°258"	5°100"	2830	16	7°802"	15°596"	2902	9	14°994"	23°432"
2595	18	9°590"	14°814"					2759	16	15°157"	5°640"	2831	11	13°150"	15°534"	2903	45	14°528"	23°530"
2596*	44	18°301"	14°220"					2760	27	17°332"	5°666"	2832	13	13°446"	15°425"	2904	27	24°100"	23°554"
2597	12	19°090"	14°780"					2761	8	20°280"	5°451"	2833	19	15°132"	15°064"	2905	9	24°545"	23°900"
2598	15	19°952"	14°936"					2762	25	23°428"	5°520"	2834	18	16°036"	15°960"	2906	26	24°576"	23°805"
2599	10	20°654"	14°617"					2763*	45	24°923"	5°971"	2835	16	1°960"	16°205"	2907	10	5°851"	24°948"
2600	19	25°288"	14°460"					2764	10	2°487"	6°081"	2836	11	10°510"	16°388"	2908	16	9°838"	24°732"
2601*	60	13°990"	15°130"					2765	22	4°040"	6°410"	2837	11	11°478"	16°264"	2909	11	12°591"	24°998"
2602	23	23°744"	15°799"					2766	13	6°044"	6°945"	2838	8	14°730"	16°790"	2910	12	13°552"	24°942"
2603	10	24°624"	15°528"					2767	34	8°913"	6°636"	2839	4	21°050"	16°688"	2911	37	14°762"	24°291"
2604	23	0°968"	16°648"					2768	10	12°768"	6°815"	2840	10	24°368"	16°994"	2912	30	16°248"	24°512"
2605	24	6°606"	16°614"					2769	11	14°671"	7°175"	2851	13	5°170"	18°742"	2913	47	16°252"	24°907"
2606	14	18°393"	16°509"					2770	10	13°198"	6°928"	2842	19	1°839"	17°212"	2914	11	20°873"	24°559"
2607	30	22°410"	16°888"					2771	11	13°796"	6°735"	2843	21	24°02	17°726"	2915	22	23°135"	24°559"
2608	13	23°980"	16°060"					2772	26	16°005"	6°685"	2844	15	9°730"	17°076"	2916	11	18°32	25°056"
2609	12	3°361"	17°766"					2773	10	19°334"	6°832"	2845	12	12°715"	17°036"	2917	10	19°924"	25°836"
2610	20	10°299"	17°621"					2774	19	21°185"	6°135"	2846	14	15°565"	17°888"	2918	12	17°510"	25°197"
2611	25	15°361"	17°750"					2775	13	22°003"	6°850"	2847	16	24°117"	17°285"	2919	13	18°494"	25°650"
2612	10	19°504"	17°290"					2776	12	5°540"	7°592"	2848	16	24°362"	17°900"	2920	27	18°880"	25°008"
2613	20	23°850"	17°048"					2777	13	7°277"	7°976"	2849	14	25°354"	17°214"	2921	30	18°910"	25°924"
2614	22	24°400"	17°560"					2778	25	10°425"	7°832"	2850*	55	3°684"	18°355"				
2615	52	25°658"	18°190"					2779	11	14°671"	7°175"	2851	13	5°170"	18°742"				
2616	16	10°628"	19°680"					2780	10	14°854"	7°384"	2852	8	6°831"	18°211"				
2617	12	12°942"	19°090"					2781	26	14°948"	7°224"	2853	10	9°654"	18°946"				
2618	27	14°330"	19°760"					2782	16	25°228"	7°482"	2854	12	18°444"	18°194"				
2619	21	22°110"	19°660"					2783	12	0°820"	7°108"	2855	31	21°970"	18°615"				
2620	12	8°942"	20°494"					2784	15	14°58	7°836"	2856	30	0°096"	19°886"				
2621	15	9°170"	20°131"					2785	15	4°900"	8°004"	2857	10	7°215"	19°869"				
2622	10	11°031"	20°312"					2786	10	5°420"	8°666"	2858	14	9°324"	19°865"				
2623	44	14°701"	20°041"					2787	27	9°517"	8°713"	2859	19	13°860"	19°940"				
2624	17	15°450"	20°282"					2788	22	15°506"	8°174"	2860	22	17°858"	19°830"				
2625	13	14°197																	

R.A. 1<sup>h</sup> 52<sup>m</sup>

Plate 2111; 1923 Dec. 8.

## Provisional Constants.

A B C  
+00104 +00276 -0597D E F  
-00341 +00120 -3624

Mag. = 16.2 - 0.94√d

No.	d	x	y
2051	10	5.197	0.645
2052	17	5.518	0.246
2053	16	11.034	0.412
2054	17	16.108	0.090
2055	22	18.778	0.273
2056	37	23.240	0.419
2057	13	23.054	0.072
2058	14	0.431	1.238
2059	65	0.152	1.928
2060	71	10.026	1.218
2061	11	14.072	1.706
2062	40	10.665	1.168
2063	17	23.443	1.242
2064	10	25.044	1.058
2065	26	4.165	2.134
2066	21	11.810	2.452
2067	15	11.861	2.300
2068	20	14.668	2.584
2069	11	15.106	2.058
2070	21	16.143	2.538
2071	26	16.245	2.345
2072	40	21.666	2.475
2073	12	24.106	2.530
2074	16	0.175	3.341
2075	33	0.605	3.780
2076	11	1.602	3.802
2077	25	4.180	3.616
2078	10	14.780	3.102
2079	22	14.790	3.426
2080	22	16.085	3.550
2081	25	23.150	3.478
2082	13	23.640	3.744
2083	15	1.673	4.396
2084	20	2.354	4.874
2085	10	5.166	4.624
2086	43	9.136	4.170
2087	13	14.490	4.610
2088	40	18.148	4.600
2089	10	18.065	4.278
2090	34	20.690	4.929
2091	83	21.142	4.318
2092	13	22.643	4.045
2093	11	25.201	4.194
2094	27	0.820	5.708
2095	17	3.890	5.324
2096	10	8.720	5.876
2097	24	10.075	5.466
2098	10	10.606	5.162
2099	23	10.815	5.226
3000	15	17.502	5.094
3001	23	17.754	5.036
3002	13	21.390	5.528
3003	36	24.616	5.278
3004	16	25.311	5.075
3005	51	25.426	5.205

R.A. 2<sup>h</sup> 0<sup>m</sup>

Plate 1500; 1920 Jan. 11.

## Provisional Constants.

A B C  
-01734 +00605 -0198D E F  
-00555 -01745 -3946

Mag. = 16.3 - 0.94√d

No.	d	x	y
3201	38	1.238	0.448
3202	19	3.018	0.080
3203	31	8.898	0.620
3204	12	10.042	0.274
3205	41	12.972	0.769
3206	46	13.780	0.430
3207	12	20.342	0.370
3208	19	1.450	1.255
3209	13	3.022	1.050
3210	35	4.316	1.406
3211	17	9.130	1.840
3212	41	14.538	1.356
3213	29	18.810	1.606
3214	9	21.656	1.098

R.A. 2 <sup>h</sup> 8 <sup>m</sup>										Plate 1505; 1920 Jan. 12.									
Provisional Constants.										A B C									
D E F										-01721 +00781 -0691									
D E F										-00796 -01720 -2681									
Mag. = 16.1 - 0.94√ d																			
No. d x y																			
3287	13	25-184	10-164	3359	10	9-763	19-016	3506	20	0-952	8-152	3578	18	25-486	14-688				
3288	14	1-653	11-727	3360	14	10-242	19-016	3507	20	1-631	8-278	3579	23	4-384	15-328				
3289	14	8-946	11-378	3361	23	14-552	19-460	3508	13	4-039	8-780	3580	26	8-854	15-904				
3290	39	16-812	11-906	3362	25	15-288	19-760	3509	18	4-430	8-514	3581	20	23-944	15-688				
3291	28	17-102	11-810	3363	25	15-725	19-267	3510	16	6-131	8-890	3582	21	24-902	15-011				
3292	25	18-353	11-244	3364	60	16-514	19-732	3511	25	6-868	8-170	3583	14	13-863	16-616				
3293	19	18-504	11-764	3365	11	18-807	19-955	3512	16	9-514	8-944	3584	10	18-600	16-074				
3294	32	19-815	11-954	3366	17	20-025	19-690	3513	16	10-906	8-100	3585	18	19-458	16-088				
3295	19	21-634	11-826	3367	23	21-994	19-670	3514	25	12-500	8-548	3586	16	21-042	16-646				
3296	25	25-930	11-165	3368	12	1-408	20-845	3515*	52	13-210	8-452	3587	22	22-612	16-313				
3297	10	1-315	12-808	3369	10	6-713	20-090	3516	12	13-773	8-020	3588*	43	24-953	16-020				
3298	16	4-825	12-958	3370	19	7-709	20-694	3517	27	14-192	8-471	3589	19	4-111	17-652				
3299	16	8-943	12-732	3371	17	9-457	20-646	3518	16	16-924	8-303	3590	16	11-194	17-888				
3300	15	9-346	12-520	3372	15	11-044	20-724	3519	15	20-350	8-442	3591	22	13-712	17-468				
3301	19	19-560	12-736	3373	16	11-403	20-990	3520	32	22-732	8-848	3592	16	15-142	17-378				
3302	17	1-166	13-350	3374	26	18-142	20-286	3521	17	25-084	8-554	3593	19	24-774	17-838				
3303	28	3-265	13-682	3375	12	19-205	20-380	3522	16	5-820	9-648	3594	25	2-124	18-778				
3304	19	6-602	13-020	3376	27	22-886	20-276	3523	18	9-884	9-498	3595	16	2-718	18-502				
3305	23	10-916	13-378	3377	13	1-180	21-316	3524	30	9-934	0-661	3524	17	17-284	9-120				
3306	32	13-728	13-475	3378	29	1-227	21-198	3525	18	14-450	0-720	3525*	56	21-300	9-816				
3307	27	16-276	13-516	3379	11	3-546	21-828	3526	17	16-636	0-629	3526	17	21-317	9-022				
3308	10	16-382	13-777	3380	42	5-162	21-446	3527	15	12-111	1-458	3527	15	21-796	9-000				
3309	11	22-659	13-324	3381	15	6-310	21-132	3528	17	19-506	1-436	3528	17	22-033	9-006				
3310	16	24-247	13-117	3382	10	8-769	21-450	3529	30	0-534	2-308	3529	17	25-096	9-788				
3311	12	2-354	14-741	3383	12	11-210	21-028	3530	15	3-814	2-480	3530	17	0-251	10-844				
3312	24	3-076	14-013	3384	21	11-520	21-118	3531	60	10-782	2-604	3531	60	0-996	10-477				
3313	12	4-270	14-148	3385	30	12-515	21-856	3532	16	13-386	2-409	3532	16	3-258	10-384				
3314*	46	5-509	14-867	3386	26	13-288	21-922	3533	19	12-600	2-710	3533	19	7-084	10-356				
3315	11	5-850	14-184	3387	32	16-927	21-620	3534	22	18-314	2-074	3534	22	7-081	10-058				
3316	13	9-664	14-604	3388	12	17-950	21-468	3535	14	21-139	2-564	3535	14	13-468	10-832				
3317	11	16-380	14-250	3389	33	18-525	21-110	3536	17	1-736	3-158	3536	17	18-278	10-950				
3318	13	19-401	14-760	3390	19	20-030	21-220	3537	16	3-693	3-264	3537	16	19-066	10-756				
3319	12	19-643	14-100	3391	39	20-820	21-203	3538	12	5-720	3-482	3538	12	20-348	10-668				
3320	28	20-740	14-250	3392	23	21-341	21-612	3539	21	20-670	3-234	3539	21	21-149	10-679				
3321	10	23-552	14-282	3393	32	6-050	22-510	3540	17	14-002	3-032	3540	16	21-352	10-102				
3322	33	23-566	14-600	3394	28	6-838	22-970	3541	16	17-521	3-008	3541	20	4-920	11-375				
3323	25	24-972	14-160	3395	15	9-043	22-300	3542	21	7-853	3-381	3542	21	7-368	11-072				
3324	26	25-558	14-610	3396	31	9-326	22-836	3543	16	23-290	3-996	3543*	37	9-972	11-114				
3325	28	2-000	15-290	3397	14	13-033	22-796	3544	34	25-700	3-263	3544	13	13-216	11-424				
3326	29	9-860	15-980	3398	24	14-986	22-280	3545	17	2-054	4-133	3545	17	20-504	11-543				
3327	12	14-750	15-390	3399	14	18-730	22-570	3546	16	6-944	4-206	3546	16	22-646	11-938				
3328	23	16-358	15-049	3400	10	20-614	22-776	3547*	44	11-066	4-372	3547	24	24-989	11-703				
3329*	54	16-448	15-060	3401	10	24-612	22-040	3547	16	11-656	4-056	3548	15	6-219	12-688				
3330	14	0-140	16-670	3402	14	3-290	23-440	3547	23	3-301	5-736	3549*	42	11-270	12-754				
3331	12	6-206	16-090	3403	18	14-004	23-382	3548	15	11-872	5-644	3550	18	13-256	12-167				
3332*	60	8-400	16-988	3404	18	16-062	23-840	3549	17	14-050	5-380	3551	14	16-318	12-934				
3333*	50	10-758	16-614	3405	14	17-178	23-960	3549	20	18-438	5-646	3552	12	21-000	12-884				
3334	17	12-020	16-193	3406	14	20-175	23-290	3550	14	24-578	5-047	3553	15	0-780	13-584				
3335	12	12-227	16-350	3407	14	20-982	23-127	3551	18	24-870	5-226	3554	18	2-366	13-352				
3336	24	17-110	16-697	3408	26	25-890	23-912	3552	24	1-494	6-616	3555	23	5-172	13-136				
3337	26	2-764	17-786	3409	39	0-076	24-404	3553	20	11-492	6-918	3556	20	9-792	13-310				
3338*	100	7-190	17-642	3410	12	0-335	24-990	3554	12	10-492	6-804	3557	12	10-218	13-030				
3339	20	10-600	17-640	3411	37	13-742	24-914	3558	15	12-956	6-865	3558	15	11-353	13-288				
3340*	43	10-680	17-956	3412	35	15-926	24-976	3559	13	12-991	6-333	3559	13	11-536	13-436				
3341	19	14-772	17-079	3413	29	15-934	24-987	3560	17	13-732	6-151	3560	17	15-746	13-366				
3342	19	18-458	17-618	3414	15	17-618	24-904	3561	12	16-464	6-048	3561	12	16-464	13-502				
3343	41	25-192	17-920	3415	19	22-840	24-850	3562	17	21-330	6-046	3562	17	21-330	13-688				
3344	21	3-470	18-045	3416	12	0-658	24-981	3563	14	1-191	4-538	3563	16	1-191	4-538				
3345	30	6-338	18-630	3417	20	2-320	25-166	3564	27	1-706	4-844	3564	27	1-706	4-844				
3346*	47	11-601	18-318	3418	23	7-416	25-814	3565	24	3-108	4-311	3565	24	3-108	4-311				
3347	14	13-636	18-607	3419	20	9-340	25-700	3566	20	7-306	4-306	3566	20	7-306	4-306				
3348*	42	20-870	18-518	3420	21	9-779	25-886	3567	16	7-572	4-507	3567	16	4-502	4-644				
3349	30	23-922	18-538	3421	13	18-610	25-865	3568	12	7-358	4-508	3568	12	7-358	4-508				
3350	14	24-520	18-271	3422	14	21-500	25-009	3569	15	3-913	7-168	3569	16	8-020	4-644				
3351	24	25-066	18-114	3423	22	23-244	25-939	3570	19	5-086	7-996	3570	19	5-086	7-996				
3352	63	1-478	19-030					3571	16	11-628	7-121	3571	16	10-696	4-258				
3353*	11	3-264	19-757					3572	19	12-074	7-917	3572	17	13-618	4-766				
3354	18	3-614	19-156					3573	23	15-004	7-229	3573	14	15-595	4-006				
3355	24	5-804	19-601					3574	13	16-987	7-223	3574	14	17-097	4-352				
3356	14	6-381	19-050					3575	16	18-015	7-174	3575	16	18-015	7-174				
3357	38	8-000	19-111					3576	12	22-188	7-328	3576	12	19-270	4-622				
3358*								3577	23	23-530	7-456	3577	23	21-176	4-280				





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14°620

7°595

12

21°502

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23°244

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6°766

13°166

12

7°476

13°664

10

9°466

13°090

20

14°935

13°864

39

20°064

13°566

30

20°835

13°506

11

0°795

14°814

14

1°862

14°666

10

6°545

14°945

23

6°557

14°786

13

7°114

14°436

39

20°030

14°208

19

23°459

14°846

30

0°684

15°050

24

5°165

15°044

13

6°545

15°396

13

8°259

15°867

10

11°654

15°545

13

16°132

15°638

12

10°935

15°952

20

21°164

15°190

16

22°702

15°190

25

0°740

16°954

9

3°31

16°785

60

7°332

16°770

10

22°175

16°572

23

22°142

16°302

40

24°068

16°582

20

2°304

17°105

9

1°104

17°072

25

5°558

17°570

17

9°033

17°254

13

11°100

17°772

41

12°620

17°666

16

14°782

17°703

22

15°678

17°866

20

16°188

17°710

20

16°624

17°716

28

21°376

17°708

11

21°724

17°650

11

25°283

17°910

10

3°366

18°865

20

3°282

18°808

12

11°630

18°930

22

12°445

18°802

14

13°270

18°505

33

14°745

18°754

23

16°352

18°475

10

16°550

18°192

19

22°145

18°260

10

23°501

18°360

12

11°974

19°080

42

16°890

19°121

14

18°505

19°620

13

21°740

19°486

12

22°950

19°990

30

0°270

20°876

20

4°552

20°655

24

6°770

20°455

10

10°195

20°382

10

10°428

20°362

25

12°718

20°523

18

12°578

20°268

10

19°180

20°588

21

19°585

20°640

10

21°005

20°368

19

23°002

20°387

13

2°266

21°827

14

4°943

21°850

20

7°164

21°764

10

18°225

21°520

18

18°756

21°932

12

22°492

21°908

28

22°535

21°559

12

0°112

22°604

15

2°544

22°310

41

4°583

22°499

16

7°218

22°435

12

14°360

22°266

33

15°382

22°845

19

25°802

22°604

14

0°755

23°727

24

4°460

23°705

13

4°522

23°464

18

11°924

23°504

15

12°494

23°816

27

14°781

23°096

14

14°845

23°715

11

17°260

23°055

12

18°200

23°245

15

19°055

23°655

17

20°245

23°854

27

23°604

23°908

4400	28	24.586	23.574	4483	31	4.790	5.101	4555	36	8.678	15.061	<b>R.A. 2<sup>h</sup> 48<sup>m</sup></b> Plate 1439; 1919 Oct. 24. <i>Provisional Constants.</i> <table><tr><td>A</td><td>B</td><td>C</td></tr><tr><td>-01780</td><td>+01030</td><td>-0556</td></tr><tr><td>D</td><td>E</td><td>F</td></tr><tr><td>-01037</td><td>-01732</td><td>-2316</td></tr></table> $Mag.=16.5-0.94\sqrt{d}$										A	B	C	-01780	+01030	-0556	D	E	F	-01037	-01732	-2316
A	B	C																															
-01780	+01030	-0556																															
D	E	F																															
-01037	-01732	-2316																															
4401	23	24.925	23.758	4484	38	7.928	5.125	4556	30	21.004	15.209	No.	d	x	y																		
4402	10	0.672	24.443	4485	15	9.468	5.484	4557	21	25.316	15.050	4651	24	3.352	0.332																		
4403	13	1.003	24.493	4486	22	15.506	5.925	4558	40	0.112	16.524	4652	45	7.296	0.500																		
4404	28	12.755	24.926	4487	39	23.012	5.101	4559	57	2.640	16.766	4653	21	7.492	0.725																		
4405	10	15.404	24.884	4488	26	23.161	5.764	4560	20	10.394	16.120	4654	18	7.950	0.730																		
4406	18	20.232	24.234	4489	30	8.351	6.004	4561	30	15.098	16.934	4655	28	10.370	0.426																		
4407	12	24.566	24.522	4490	44	10.934	6.517	4562	15	23.735	16.802	4656	21	11.906	0.304																		
4408	13	24.835	24.891	4491	30	11.678	6.258	4563	15	3.259	17.576	4657	15	18.201	0.841																		
4409	11	25.793	24.018	4492	15	14.558	6.254	4564	39	4.531	17.683	4658	11	2.404	1.025																		
4410	12	3.508	25.588	4493	18	16.376	6.596	4565	21	6.392	17.424	4659	26	5.332	1.712																		
4411	16	8.049	25.245	4494	54	18.825	6.492	4566	20	11.661	17.236	4660	27	5.700	1.584																		
4412	24	9.920	25.044	4495	40	22.512	6.668	4567	40	11.947	17.997	4661	30	15.491	1.934																		
4413	15	10.354	25.349	4496	38	8.846	7.082	4568	26	12.224	17.684	4662	17	15.807	1.863																		
4414	13	22.262	25.897	4497	28	2.345	7.686	4569	13	13.834	17.875	4663	25	3.032	2.464																		
4415	13	23.776	25.210	4498	57	4.693	7.741	4570	17	13.966	17.751	4664	34	7.293	2.750																		
				4499	37	6.810	7.434	4571	31	18.232	17.214	4665	17	11.750	2.441																		
				4500	21	8.594	7.706	4572	14	19.744	17.236	4666	31	20.140	2.784																		
				4501	38	10.108	7.832	4573	39	20.960	17.246	4667	13	21.394	2.086																		
				4502	18	11.286	7.398	4574	17	22.008	17.411	4668	12	24.745	2.400																		
				4503	14	15.218	7.838	4575	21	25.000	17.272	4669	66	1.986	3.570																		
				4504	28	15.357	7.006	4576	30	0.980	18.118	4670	38	3.130	3.712																		
				4505	12	15.550	7.553	4577	28	10.024	18.463	4671	30	3.192	3.184																		
				4506	44	15.839	7.315	4578	38	12.302	18.609	4672	33	8.284	3.240																		
				4507	20	17.702	7.372	4579	34	16.050	18.064	4673	15	14.228	3.593																		
				4508	38	18.310	7.850	4580	24	16.972	18.856	4674	13	19.650	3.490																		
				4509	44	21.434	8.536	4581	19	20.360	18.150	4675	16	23.986	3.693																		
				4510	39	21.914	8.344	4582	14	20.686	18.635	4676	32	2.380	4.908																		
				4511	22	5.798	9.308	4583	16	0.661	19.304	4677	32	2.387	4.592																		
				4512	38	11.644	9.883	4584	100	14.062	19.545	4678	22	11.022	4.660																		
				4513	19	15.916	9.921	4585	30	15.126	20.409	4679	22	14.766	4.984																		
				4514	24	17.505	9.804	4586	38	18.061	20.473	4680	73	18.015	4.486																		
				4515	24	21.311	9.310	4587	24	21.236	20.028	4681	56	19.184	4.854																		
				4516	24	22.298	9.564	4588	20	22.507	20.156	4682	24	25.955	4.932																		
				4517	21	24.244	9.512	4589	40	23.811	20.567	4683	26	0.984	5.306																		
				4518	16	11.314	10.818	4590	41	0.276	21.776	4684	17	1.146	5.955																		
				4519	37	12.089	10.052	4591	32	1.637	21.136	4685	116	8.657	5.580																		
				4520	59	6.879	11.222	4592	32	5.844	21.202	4686	24	10.928	5.056																		
				4521	37	8.110	11.886	4593	26	19.469	21.001	4687	15	11.049	5.820																		
				4522	25	15.261	11.628	4594	16	25.638	21.838	4688	11	13.943	5.518																		
				4523	27	16.205	11.015	4595	37	3.560	22.866	4689	31	14.786	5.950																		
				4524	28	17.542	11.878	4596	17	4.688	22.262	4690	20	16.210	5.747																		
				4525	79	17.346	12.666	4597	38	6.793	22.442	4691	27	0.522	6.858																		
				4526	23	2.104	12.554	4598	27	7.274	22.272	4692	23	5.160	6.439																		
				4527	16	2.644	12.560	4599	13	12.839	22.526	4693	12	9.750	6.690																		
				4528	40	6.357	12.302	4600	40	14.044	22.656	4694	22	15.160	6.926																		
				4529	34	7.030	12.117	4601	20	16.664	22.508	4695	15	15.300	6.752																		
				4530	34	22.982	12.214	4602	42	2.356	23.766	4696	16	18.570	6.280																		
				4531	13	10.136	13.700	4603	38	2.698	23.944	4697	22	21.082	6.904																		
				4532	30	10.926	13.962	4604	41	3.789	23.303	4698	25	21.256	6.120																		
				4533	36	12.955	13.830	4605	21	5.079	23.024	4699	20	25.888	6.220																		
				4534	17	14.596	13.844	4606	39	17.006	23.252	4700	13	10.148	7.794																		
				4535	35	14.820	13.977	4607	118	20.103	23.356	4701	17	16.390	7.608																		
				4536	118	17.930	13.481	4608	50	22.868	23.994	4702	23	17.068	7.282																		
				4537	138	18.817	13.212	4609	42	14.70	24.204	4703	25	18.406	7.424																		
				4538	13	19.846	13.918	4610	16	2.356	24.715	4704	78	18.826	7.650																		
				4539	20	20.788	13.794	4611	26	3.575	24.195	4705	47	19.060	7.816																		
				4540	36	22.731	13.572	4612	28	4.774	24.951																						
				4541	39	22.879	13.440	4613	72	5.602	24.934																						
				4542	32	7.263	14.622	4614	37	8.490	24.760																						
				4543	15	10.882	14.588	4615	35	22.520	24.700																						
				4544	35	11.398	14.444	4616	16	25.764	24.250																						
				4545	28	12.896	14.980	4617	24	2.626	25.082																						
				4546	34	15.214	14.925	4618	39	5.344	25.984																						
				4547	16	15.158	14.376	4619	48	6.506	25.334																						
				4548	31	18.893	14.866	4620	38	7.250	25.249																						
				4549	38	22.078	14.488	4621	66	10.422	25.652																						
				4550	31	22.874	14.612	4622	76	18.790	25.476																						
				4551	26	0.361	15.05	4623	16	23.458	25.536																						
				4552	32	4.640	15.372																										
				4553	18	6.528	15.457																										
				4554	42	7.034	15.425																										

4451	50	4.224	0.085	4523	27	16.205	11.015	4595	37	3.560	22.866	4674	13	19.650	3.490
4452	76	7.174	0.076	4524	28	17.542	11.878	4596	17	4.688	22.262	4675	16	23.986	3.693
4453	18	7.200	0.278	4525	79	17.346	12.666	4597	38	6.793	22.442	4676	32	2.380	4.908
4454	37	7.572	0.655	4526	23	2.104	12.554	4598	27	7.274	22.272	4677	32	2.387	4.592
4455	54	10.295	0.614	4527	16	2.644	12.560	4599	13	12.839	22.526	4678	22	11.022	4.660
4456	27	18.745	0.999	4528	40	6.357	12.302	4600	40	14.044	22.656	4679	22	14.766	4.984
4457	16	24.547	0.774	4529	33	7.030	12.117	4601	20	16.664	22.508	4680	73	18.015	4.486
4458	30	25.528	0.092	4530	34	22.982	12.214	4602	42	2.356	23.766	4681	56	19.184	4.854
4459	40	2.904	1.228	4531	13	10.136	13.700	4603	38	2.698	23.944	4682	24	25.955	4.932
4460	30	8.805	1.412	4532	30	10.926	13.962	4604	41	3.789	23.303	4683	26	0.984	5.306
4461	46	11.074	1.373	4533	36	12.955	13.830	4605	21	5.079	23.024	4684	17	1.146	5.955
4462	41	15.886	1.653	4534	17	14.596	13.844	4606	39	17.006	23.252	4685	116	8.657	5.580
4463	30	21.151	1.250	4535	35	14.820	13.977	4607	118	20.103	23.356	4686	24	10.928	5.056
4464	38	3.115	2.433	4536	118	17.930	13.481	4608	50	22.868	23.994	4687	15	11.049	5.820
4465	42	10.759	2.048	4537	138	18.817	13.212	4609	42	14.70	24.204	4688	11	13.943	5.518
4466	28	17.376	2.576	4538	13	19.846	13.918	4610	16	2.356	24.715	4689	31	14.786	5.950
4467	40	25.156	2.251	4539	20	20.788	13.794	4611	26	3.575	24.195	4690	20	16.210	5.747
4468	43	25.308	2.986	4540	36	22.731	13.572	4612	28	4.774	24.951	4691	27	0.522	6.858
4469	50	10.700	3.216	4541	<										



4778	27	5°590	18°991	<b>R.A. 2<sup>h</sup> 56<sup>m</sup></b> Plate 1497; 1920 Jan. 10. <i>Provisional Constants.</i> A B C -01734 +00378 -0009 D E F -00389 -01767 -3622 $Mag. = 16.2 - 0.94\sqrt{d}$	4906	14	5°866	8°858	4978	22	3°296	19°635	5006	28	1°240	1°842
4779	16	9°993	18°560		4907	30	10°762	8°058	4979	42	5°460	19°834	5007	22	5°020	1°738
4780	14	13°570	18°685		4908	25	14°288	8°658	4980	20	6°664	19°736	5008	28	6°630	1°932
4781*	80	15°088	18°287		4909	20	19°694	8°866	4981	17	9°080	19°395	5009	17	7°161	1°203
4782	14	17°938	18°730		4910	10	21°138	8°514	4982	49	2°324	20°882	5070	32	20°634	1°200
4783	32	19°180	18°080		4911	22	23°539	8°212	4983	28	3°134	20°290	5071	34	24°161	1°230
4784	31	20°264	18°515		4912	25	23°802	8°570	4984	21	4°162	20°657	5072	26	25°517	1°055
4785	14	20°401	18°166		4913	12	8°136	9°531	4985	26	11°297	20°514	5073	25	25°302	2°086
4786	33	25°748	18°156		4914	18	8°570	9°018	4986	30	17°954	21°333	5074	28	6°630	2°488
4787	42	25°882	18°562		4915	25	10°069	9°910	4987	31	18°404	21°790	5075	16	8°746	2°802
4788*	43	6°474	19°356	<b>R.A. 3<sup>h</sup> 4<sup>m</sup></b> Plate 1490; 1920 Jan. 8. <i>Provisional Constants.</i> A B C -01759 -00216 -0201 D E F -00230 -01733 -4259 $Mag. = 16.4 - 0.91\sqrt{d}$	4916	12	13°754	9°266	4988	45	20°668	21°600	5076	28	15°912	2°036
4789	37	8°290	19°354		4917	10	14°154	9°501	4989	40	23°853	21°656	5077	20	17°746	2°446
4790	19	10°471	19°563		4918	28	14°558	9°995	4990	23	4°748	22°375	5078*	47	22°482	2°628
4791	41	10°608	19°472		4919	60	21°766	9°433	4991	23	9°084	22°872	5079	20	23°010	2°150
4792*	40	11°142	19°841		4920	22	21°798	9°456	4992	25	10°080	22°940	5080	12	25°468	2°100
4793	25	13°644	19°520		4921*	55	24°051	9°977	4993	22	1°642	23°416	5081	41	6°647	3°200
4794	15	14°436	19°478		4922	40	3°274	10°332	4994	20	2°961	23°344	5082	10	11°351	3°017
4795	23	14°556	19°990		4923	18	8°205	10°945	4995	48	4°865	23°500	5083	25	15°918	3°180
4796	27	14°630	19°926		4924	24	12°140	10°974	4996	24	10°634	23°960	5084	31	17°302	3°526
4797	42	20°050	19°664		4925	18	15°524	10°436	4997	30	14°530	23°346	5085	13	17°285	3°760
4798	21	25°132	19°540		4926	26	18°554	10°938	4998	40	19°127	23°299	5086	22	18°068	3°786
4799	15	0°800	20°098	4855*	4927	22	6°181	11°908	4999	20	3°145	24°955	5087	13	21°158	3°804
4800	27	2°087	20°474	4856	4928	34	8°845	11°540	5000	18	9°931	24°944	5088	21	24°603	3°524
4801	54	24°161	20°780	4857	4929	18	18°012	11°602	5001	20	24°927	24°554	5089	12	1°176	4°959
4802	33	24°969	20°194	4858*	4930	36	0°440	12°682	5002	40	3°570	25°466	5090	25	14°38	4°303
4803	13	25°991	20°565	4859	4931	20	5°395	12°560	5003	16	6°392	25°604	5091	13	21°84	4°722
4804	14	3°906	21°680	4860	4932	22	4°102	12°230	5004	32	6°875	25°928	5092	35	5°94	4°587
4805	30	9°383	21°646	4861	4933	28	16°014	12°232	5005	15	7°081	25°796	5093	25	6°696	4°101
4806	35	13°180	21°855	4862	4934	16	21°354	12°280	5006	14	8°226	25°828	5094	12	8°720	4°263
4807	84	15°804	21°626	4863*	4935	32	21°440	12°098	5007	19	12°174	25°840	5095	33	13°666	4°922
4808	31	16°302	21°492	4864*	4936	22	24°726	12°176	5008	24	10°937	25°549	5096	25	16°833	4°714
4809	12	16°585	21°982	4865*	4937	34	24°766	12°766	5009	15	20°910	25°118	5097	20	16°938	4°480
4810	13	13°932	22°661	4866*	4938	10	0°876	13°060	5010	24	20°125	25°815	5098	28	17°274	4°400
4811	28	15°000	22°587	4867*	4939	22	4°512	13°033					5099	34	19°286	4°734
4812	19	17°750	22°074	4868*	4940	23	7°342	13°732					5100	36	7°245	5°442
4813	14	22°698	22°786	4869	4941	16	19°654	13°090					5101	21	7°559	5°020
4814	37	1°233	23°858	4870	4942	22	22°670	13°977					5102	14	9°938	5°938
4815	26	5°624	23°183	4871*	4943	13	24°702	13°315					5103	34	13°575	5°376
4816	12	9°164	23°336	4872	4944	15	2°640	14°122					5104	18	14°825	5°311
4817	14	10°110	23°176	4873	4945	20	3°954	14°024					5105	24	16°157	5°344
4818	24	14°660	23°308	4874	4946	16	4°202	14°130					5106	12	18°852	5°256
4819	30	18°819	23°384	4875	4947	13	5°150	14°259					5107	17	21°582	5°200
4820	23	23°454	23°310	4876	4948	17	12°110	14°120					5108*	36	0°320	6°314
4821	12	23°774	23°882	4877	4949	25	15°940	14°881					5109*	49	1°460	6°075
4822	22	24°776	23°244	4878	4950*	51	17°552	14°076					5110	12	1°504	6°034
4823	20	0°910	24°557	4879	4951	28	2°368	15°783					5111	21	1°830	6°804
4824	20	4°086	24°050	4880	4952	21	4°908	15°766					5112	34	3°500	6°522
4825	25	8°020	24°699	4881	4953	22	7°940	15°940					5113*	15	4°450	6°534
4826	11	8°112	24°143	4882	4954	15	10°121	15°838					5114	34	6°202	6°381
4827	40	17°990	24°635	4883	4955	20	14°608	15°944					5115	20	8°210	6°278
4828	16	21°070	24°748	4884	4956	25	17°800	15°167					5116	27	9°396	6°554
4829	17	24°044	24°856	4885	4957	18	18°011	15°251					5117	31	11°578	6°600
4830	11	1°847	25°362	4886	4958*	69	19°180	15°166					5118	31	15°576	6°319
4831	15	8°634	25°314	4887	4959*	39	22°286	15°659					5119	29	17°734	6°974
4832	42	9°636	25°154	4888	4960	18	3°956	16°374					5120	28	19°040	6°031
4833	11	14°967	25°983	4889	4961	13	15°115	16°424					5121	21	20°230	6°056
4834	23	17°493	25°375	4890	4962	30	18°082	16°197					5122	23	5°544	7°626
4835	13	20°863	25°963	4891	4963	15	21°684	16°828					5123	23	5°581	7°622
4836	13	23°350	25°046	4892	4964	20	22°442	16°696					5124	31	6°870	7°876
4837	36	25°371	25°370	4893	4965	25	25°643	16°174					5125	10	7°734	7°791
				4894*	4966	14	0°874	17°254					5126	12	8°287	7°439
				4895	4967	20	4°900	17°795					5127	12	10°063	7°474
					4968	17	6°105	17°420					5128	14	10°726	7°934
					4969	12	16°204	17°737					5129*	40	12°270	7°300
					4970	13	19°060	17°255					5130	25	13°033	7°738
					4971	21	23°862	17°965					5131	17	18°310	7°594
					4972	32	3°898	18°248					5132	10	18°759	7°070
					4973*	40	4°032	18°652					5133	13	18°830	7°495
					4974	20	5°496	18°327					5134	16	21°802	7°259
					4975	22	13°820	18°565					5135	33	22°900	7°044
					4976	21	15°545	18°184					5136	30	25°120	7°591
					4977*	36	16°370	18°335					5137	27	1°580	8°250

5138	32	1-844	8-604	5210	24	7-080	15-152	5282	39	10-826	22-266	5368	16	15-560	2-079	5440	14	15-480	11-035
5139	11	14-182	8-566	5211	12	7-120	15-134	5283	34	15-508	22-518	5369	20	18-802	2-967	5441	14	15-720	11-716
5140	10	17-135	8-602	5212	12	13-188	15-766	5284	10	23-825	22-940	5370	14	22-880	2-542	5442	15	16-938	11-221
5141	15	17-070	8-203	5213	36	19-777	15-475	5285	24	4-938	23-360	5371	12	1-506	3-765	5443	13	18-870	11-868
5142	10	18-090	8-225	5214	39	20-128	15-520	5286	35	7-414	23-007	5372	40	11-203	3-147	5444	21	19-720	11-761
5143	22	21-710	8-414	5215	24	22-143	15-028	5287	20	8-059	23-788	5373	13	11-852	3-120	5445	24	20-110	11-545
5144	20	22-622	8-908	5216	27	0-544	16-742	5288	37	9-096	23-784	5374	24	19-402	3-072	5446	40	25-680	11-634
5145	12	24-755	8-788	5217	31	3-740	16-196	5289	25	9-554	23-074	5375	28	19-630	3-965	5447	15	9-577	12-500
5146	12	2-201	9-924	5218	14	9-506	16-076	5290	19	14-210	23-950	5376	40	22-484	3-340	5448	12	13-702	12-110
5147	10	3-117	9-863	5219	14	10-502	16-952	5291	14	17-586	23-384	5377	28	6-387	4-588	5449	20	13-868	12-644
5148	20	4-114	9-342	5220	36	11-445	16-471	5292	12	17-800	23-726	5378	20	10-328	4-116	5450	25	25-500	12-944
5149	20	5-305	9-636	5221	10	13-676	16-650	5293	26	18-865	23-890	5379	12	14-836	4-178	5451	25	0-752	13-624
5150	39	19-912	9-790	5222	12	14-398	16-860	5294	28	22-340	23-315	5380	20	17-424	4-298	5452	24	6-698	13-520
5151	23	21-815	9-366	5223	38	19-404	16-924	5295	12	1-453	24-782	5381	20	19-207	4-032	5453	13	7-320	13-463
5152	14	22-744	9-450	5224	24	19-421	16-911	5296	26	3-088	24-581	5382	31	22-612	4-127	5454	17	10-416	13-734
5153	36	22-994	9-400	5225	17	20-204	16-354	5297	30	6-543	24-470	5383	24	25-830	4-692	5455	16	12-314	13-442
5154	34	23-519	9-768	5226	17	24-607	16-814	5298	34	16-886	24-442	5384	17	5-713	5-514	5456	13	12-069	13-025
5155	54	2-100	10-010	5227	32	4-110	17-011	5299	27	21-664	24-102	5385	33	11-418	5-521	5457	17	13-515	13-762
5156	33	6-300	10-065	5228	31	7-402	17-254	5300	29	23-126	24-165	5386	12	15-129	5-555	5458	15	18-939	13-140
5157	31	8-020	10-300	5229	27	8-520	17-022	5301	10	23-624	24-656	5387	42	15-320	5-713	5459	16	19-410	13-720
5158	17	8-366	10-432	5230	10	9-210	17-286	5302	14	24-580	24-188	5388	17	16-166	5-882	5460	34	6-702	14-825
5159	35	13-320	10-255	5231	36	9-730	17-518	5303	12	7-908	25-876	5389	13	22-658	5-695	5461	19	7-475	14-562
5160	29	13-498	10-180	5232	26	10-965	17-960	5304	16	9-208	25-672	5390	13	18-166	6-543	5462	22	14-418	14-181
5161	29	14-201	10-180	5233	26	11-494	17-220	5305	11	11-798	25-051	5391	24	10-732	6-604	5463	45	8-250	14-065
5162	34	14-449	10-732	5234	12	18-468	17-628	5306	32	17-676	25-557	5392	30	14-514	6-303	5464	13	9-159	14-154
5163	27	16-731	10-930	5235	29	18-836	17-554	5307	32	17-677	25-570	5393	11	15-066	6-110	5465	20	10-396	14-182
5164	10	23-511	10-965	5236	13	19-157	17-192	5308	24	18-886	25-701	5394	15	15-170	6-540	5466	12	12-395	14-834
5165	18	5-240	11-973	5237	13	0-360	18-404	5309	28	21-036	25-198	5395	38	15-206	6-727	5467	25	13-010	14-486
5166	14	5-658	11-974	5238	26	1-974	18-000	5310	16	23-236	25-209	5396	35	16-880	6-438	5468	24	13-587	14-828
5167	28	8-000	11-552	5239	42	4-502	18-962	5311	16	23-630	25-330	5397	13	19-530	6-530	5469	15	15-308	14-510
5168	20	16-105	11-200	5240	28	5-245	18-379	5312	24	24-776	25-664	5398	18	21-316	6-645	5470	20	20-728	14-354
5169	31	24-870	11-496	5241	12	8-810	18-320					5399	15	23-934	6-555	5471	120	21-170	14-056
5170	30	2-704	12-204	5242	25	11-880	18-380					5400	42	25-377	6-307	5472	21	21-290	14-066
5171	37	2-832	12-791	5243	30	12-438	18-837					5401	26	0-953	7-298	5473	17	23-570	14-231
5172	15	3-374	12-326	5244	25	13-852	18-786					5402	24	3-178	7-806	5474	20	25-005	14-675
5173	14	3-671	12-815	5245	34	14-246	18-104					5403	20	5-187	7-832	5475	14	0-337	15-294
5174	34	14-068	12-620	5246	23	14-870	18-678					5404	10	12-474	7-876	5476	32	0-950	15-246
5175	22	18-530	12-158	5247	31	15-748	18-438					5405	26	17-574	7-035	5477	14	5-486	15-204
5176	17	19-364	12-650	5248	10	16-740	18-340					5406	15	5-276	8-488	5478	17	9-643	15-223
5177	24	2-782	13-345	5249	34	16-992	18-902					5407	26	6-004	8-114	5479	17	10-491	15-350
5178	18	6-772	13-562	5250	12	17-770	18-112					5408	24	6-015	8-105	5480	25	21-290	15-996
5179	25	8-175	13-225	5251	35	20-355	18-277					5409	30	6-871	8-578	5481	20	20-979	15-649
5180	14	8-364	13-295	5252	11	21-638	18-226					5410	25	11-252	8-458	5482	12	4-402	16-050
5181	21	11-053	13-870	5253	22	25-768	18-298					5411	15	13-357	8-498	5483	41	4-748	16-657
5182	16	12-710	13-752	5254	15	3-946	19-778					5412	20	13-485	8-140	5484	18	13-894	16-844
5183	12	12-738	13-110	5255	21	6-004	19-240					5413	22	18-165	8-566	5485	42	17-820	16-094
5184	42	13-328	13-433	5256	28	7-082	19-038					5414	32	18-276	8-602	5486	18	5-664	17-708
5185	50	17-766	13-283	5257	16	8-077	19-855					5415	13	21-822	8-756	5487	14	9-643	17-024
5186	10	18-014	13-458	5258	20	9-940	19-166					5416	32	22-596	8-092	5488	46	13-790	17-810
5187	45	18-258	13-916	5259	33	10-674	19-812					5417	13	24-905	8-748	5489	16	15-214	17-884
5188	12	22-001	13-350	5260	30	16-023	19-250					5418	16	0-710	9-255	5490	12	17-751	17-360
5189	32	22-590	13-366	5261	10	17-384	19-286					5419	10	0-838	9-705	5491	12	19-361	17-116
5190	10	23-944	13-820	5262	20	17-837	19-792					5420	31	1-083	9-652	5492	16	4-020	18-496
5191	29	0-753	14-020	5263	30	18-722	19-850					5421	20	8-685	9-882	5493	42	6-329	18-964
5192	34	5-185	14-805	5264	12	1-086	20-210					5422	11	10-337	9-105	5494	12	12-140	18-060
5193	36	6-151	14-746	5265	28	5-646	20-006					5423	24	13-260	9-770	5495	18	12-460	18-560
5194	18	8-148	14-702	5266	29	6-275	20-714					5424	10	14-748	9-986	5496	10	16-900	18-064
5195	45	14-592	14-972	5267	21	10-870	20-295					5425	15	17-224	9-048	5497	20	22-757	18-308
5196	22	18-150	14-748	5268	14	15-290	20-504					5426	12	18-180	9-293	5498	15	23-458	18-924
5197	22	18-520	14-130	5269	30	16-233	20-816					5427	25	1-616	10-009	5499	22	7-850	19-816
5198	12	18-522	14-142	5270	14	18-337	20-466					5428	24	5-830	10-455	5500	37	10-324	19-184
5199	24	18-676	14-628	5271	20	18-820	20-798					5429	18	9-320	10-042	5501	27	10-521	19-485
5200	24	20-871	14-516	5272	22	20-185	20-558					5430	16	10-350	10-982	5502	42	13-674	19-352
5201	25	21-186	14-004	5273	30	20-966	20-642					5431	17	13-627	10-206	5503	11	17-024	19-026
5202	20	21-650	14-204	5274	25	23-379	20-008					5432	14	16-062	10-568	5504	31	22-916	19-385
5203	13	22-171	14-504	5275	38	1-909	21-690					5433	31	16-722	10-250	5505	22	24-298	19-088
5204	36	22-750	14-991	5276	31	9-748	21-500					5434	24	17-328	10-783	5506	14	1-665	20-451
5205	39	2-378	15-705	5277	34	15-228													

5512	10	20°57'	20°83'	5566	24	4°84'	1°58'	5638	13	6°40'	6°38'	5710	22	1°62'	13°00'	5781	21	23°55'	18°84'
5513	23	24°36'	20°86'	5567	26	8°76'	1°41'	5639	12	7°02'	6°92'	5711	13	3°54'	13°10'	5782	12	0°04'	10°20'
5514	23	16°62'	21°67'	5568	19	11°94'	1°78'	5640	17	7°12'	6°70'	5712	15	3°04'	13°15'	5783	35	10°38'	10°15'
5515	16	17°46'	21°92'	5569	35	16°15'	1°18'	5641	22	7°83'	6°30'	5713	16	8°34'	13°50'	5784	12	21°54'	10°53'
5516	40	20°79'	21°31'	5570	40	17°50'	1°98'	5642	19	14°67'	6°82'	5714	37	10°20'	13°27'	5785	20	7°13'	10°33'
5517	31	21°53'	21°79'	5571	40	18°09'	1°73'	5643	30	14°83'	6°33'	5715	15	10°57'	13°25'	5787	20	10°76'	10°00'
5518	20	25°12'	21°69'	5572	33	18°65'	1°86'	5644	21	16°13'	6°26'	5716	20	10°00'	13°15'	5788	24	10°08'	10°52'
5519	21	9°39'	22°64'	5573	20	0°76'	2°31'	5645	11	20°58'	6°40'	5717	12	11°08'	13°54'	5789	11	12°77'	10°10'
5520	40	9°27'	22°68'	5574	11	0°77'	2°72'	5646	36	0°55'	7°86'	5718	22	13°33'	13°08'	5790	11	13°02'	10°57'
5521	40	16°97'	22°61'	5575	12	1°52'	2°56'	5647	14	2°35'	7°10'	5719	15	14°75'	13°88'	5791	19	21°38'	10°71'
5522	38	17°46'	22°39'	5576	26	4°22'	2°60'	5648	13	3°04'	7°78'	5720	22	14°08'	13°55'	5792	12	23°78'	10°04'
5523	100	18°09'	22°66'	5577	17	9°42'	2°48'	5649	22	6°07'	7°27'	5721	12	19°25'	13°51'	5793	12	23°13'	10°17'
5524	30	10°18'	22°20'	5578	14	9°74'	2°18'	5650	17	7°11'	7°11'	5722	13	25°58'	13°83'	5794	12	23°30'	10°22'
5525	17	22°55'	22°63'	5579	13	9°08'	2°21'	5651	20	7°14'	7°50'	5723	24	3°06'	14°11'	5795	22	23°07'	10°72'
5526	20	0°68'	23°57'	5580	20	16°79'	2°89'	5652	26	12°47'	7°45'	5724	14	5°24'	14°33'	5796	20	24°08'	10°54'
5527	24	9°72'	23°15'	5581	34	19°84'	2°92'	5653	17	12°54'	7°33'	5725	13	5°37'	14°26'	5797	12	23°45'	10°48'
5528	20	11°749'	23°509'	5582	30	20°720'	2°338'	5654	14	17°087'	7°230'	5726	29	7°998'	14°139'	5798	25	23°14'	10°615'
5529	19	13°180'	23°776'	5583	10	20°880'	2°362'	5655	31	24°072'	7°110'	5727	24	8°796'	14°720'	5799	26	4°715'	10°280'
5530	25	15°394'	23°323'	5584	34	24°050'	2°685'	5656	11	25°224'	7°500'	5728	11	9°807'	14°901'	5800	17	9°105'	10°713'
5531	24	16°146'	23°910'	5585	40	0°370'	3°116'	5657	12	2°240'	8°514'	5729	15	15°475'	14°668'	5801	12	10°339'	10°148'
5532	14	19°508'	23°134'	5586	32	0°510'	3°902'	5658	20	2°873'	8°488'	5730	16	17°049'	14°376'	5802	12	13°171'	10°504'
5533	15	0°021'	24°373'	5587	14	3°753'	3°156'	5659	14	3°142'	8°545'	5731	15	18°635'	14°173'	5803	12	17°153'	10°255'
5534	20	1°484'	24°410'	5588	38	5°666'	3°432'	5660	17	10°215'	8°645'	5732	16	20°769'	14°200'	5804	17	17°145'	10°199'
5535	10	6°351'	24°312'	5589	13	6°306'	3°648'	5661	20	11°530'	8°518'	5733	12	21°678'	14°310'	5805	17	19°318'	10°534'
5536	11	11°495'	24°380'	5590	10	8°230'	3°270'	5662	11	12°091'	8°352'	5734	17	25°648'	14°375'	5806	33	19°082'	10°662'
5537	15	14°076'	24°079'	5591	15	9°360'	3°932'	5663	12	22°065'	8°058'	5735	14	19°988'	15°846'	5807	11	22°644'	10°737'
5538	34	20°401'	24°765'	5592	10	10°554'	3°680'	5664	48	25°065'	8°050'	5736	24	21°148'	15°402'	5808	18	23°040'	11°370'
5539	15	1°615'	25°452'	5593	60	11°749'	3°881'	5665	15	2°618'	9°304'	5737	14	3°649'	15°510'	5809	24	3°200'	11°435'
5540	28	5°675'	25°544'	5594	13	14°668'	3°614'	5666	15	4°108'	9°412'	5738	11	5°160'	15°476'	5810	20	5°646'	11°608'
5541	33	19°146'	25°265'	5595	40	17°843'	3°126'	5667	14	13°529'	9°976'	5739	12	11°302'	15°103'	5811	12	10°546'	11°572'
5542	50	24°000'	25°282'	5596	15	19°968'	3°806'	5668	13	18°411'	9°610'	5740	23	11°840'	15°170'	5812	30	11°804'	11°572'
5543	27	24°046'	25°112'	5597	10	22°492'	3°078'	5669	12	20°030'	9°250'	5741	15	13°228'	15°245'	5813	24	13°366'	11°977'
5544	16	25°344'	25°080'	5598	39	22°580'	3°972'	5670	46	21°800'	9°288'	5742	20	16°723'	15°064'	5814	11	13°090'	11°504'
				5599	16	22°972'	3°694'	5671	22	25°318'	9°516'	5743	10	18°456'	15°135'	5815	20	0°728'	12°110'
				5600	13	23°559'	3°660'	5672	42	4°586'	10°200'	5744	30	19°974'	15°413'	5816	10	13°664'	12°944'
				5601	16	24°030'	3°565'	5673	17	5°042'	10°736'	5745	16	22°099'	15°204'	5817	31	6°034'	12°215'
				5602	17	24°354'	3°928'	5674	24	7°822'	10°513'	5746	12	24°078'	15°017'	5818	17	6°165'	12°637'
				5603	11	24°685'	3°016'	5675	14	8°524'	10°780'	5747	12	24°831'	15°753'	5819	20	8°662'	12°780'
				5604	24	25°200'	3°268'	5676	14	8°665'	10°600'	5748	11	12°104'	16°015'	5820	34	12°833'	12°717'
				5605	35	3°738'	4°418'	5677	16	10°050'	10°695'	5749	16	6°824'	16°020'	5821	25	17°016'	12°771'
				5606	33	4°570'	4°471'	5678	11	13°104'	10°614'	5750	14	11°222'	16°132'	5822	14	20°008'	12°320'
				5607	20	5°680'	4°689'	5679	20	13°184'	10°652'	5751	12	12°099'	16°350'	5823	16	21°656'	12°667'
				5608	20	6°214'	4°602'	5680	12	13°881'	10°001'	5752	30	14°386'	16°484'	5824	13	23°360'	12°262'
				5609	20	7°090'	4°335'	5681	26	15°081'	10°046'	5753	18	14°447'	16°505'	5825	27	12°841'	12°682'
				5610	12	7°756'	4°671'	5682	20	17°208'	10°184'	5754	40	15°536'	16°230'	5826	31	6°153'	13°512'
				5611	13	8°178'	4°490'	5683	32	19°110'	10°982'	5755	12	15°746'	16°388'	5827	10	6°168'	13°510'
				5612	25	10°287'	4°169'	5684	40	3°687'	11°365'	5756	13	21°789'	16°344'	5828	18	11°566'	13°820'
				5613	12	11°572'	4°278'	5685	40	5°750'	11°880'	5757	22	22°556'	16°044'	5829	18	12°565'	13°213'
				5614	15	19°212'	4°033'	5686	22	7°624'	11°914'	5758	14	24°088'	16°241'	5830	10	20°041'	13°364'
				5615	20	20°805'	4°974'	5687	20	10°000'	11°218'	5759	15	3°072'	17°670'	5831	34	22°338'	14°868'
				5616	20	20°930'	4°051'	5688	34	10°800'	11°080'	5760	16	4°794'	17°048'	5832	29	3°538'	14°814'
				5617	17	0°584'	5°468'	5689	20	12°805'	11°032'	5761	40	6°146'	17°756'	5833	26	5°430'	14°812'
				5618	10	0°919'	5°662'	5690	22	17°542'	11°254'	5762	14	7°825'	17°640'	5834	31	5°454'	14°714'
				5619	24	4°458'	5°670'	5691	12	21°352'	11°221'	5763	13	7°907'	17°334'	5835	20	13°268'	14°112'
				5620	62	6°652'	5°946'	5692	14	24°090'	11°600'	5764	13	10°208'	17°960'	5836	20	14°765'	14°942'
				5621	20	7°570'	5°770'	5693	20	24°686'	11°600'	5765	16	10°802'	17°994'	5837	14	15°715'	14°958'
				5622	42	7°988'	5°797'	5694	29	3°527'	12°675'	5766	12	12°175'	17°242'	5838	26	17°110'	14°734'
				5623	23	8°630'	5°300'	5695	10	4°808'	12°176'	5767	14	14°966'	17°600'	5839	10	18°343'	14°801'
				5624	12	9°523'	5°214'	5696	20	5°710'	12°118'	5768	53	10°870'	17°218'	5840	14	20°380'	14°700'
				5625	24	11°966'	5°485'	5697	17	6°415'	12°556'	5769	22	18°980'	17°906'	5841	11	20°688'	14°220'
				5626	60	14°724'	5°532'	5698	48	12°556'	12°545'	5770	37	19°648'	17°375'	5842	56	22°266'	15°038'
				5627	13	14°844'	5°910'	5699	11	13°602'	12°872'	5771	25	0°866'	18°080'	5843	12	12°024'	15°100'
				5628	12	15°776'	5°310'	5700	10	17°887'	12°778'	5772	20	1°578'	18°685'	5844	15	13°268'	15°421'
				5629	24	17°058'	5°690'	5701	45	19°080'	12°496'	5773	25	2°118'	18°838'	5845	40	18°320'	15°750'
				5630	12	17°082'	5°024'	5702	18	20°674'	12°848'	5774	14	13°264'	18°736'	5846	27	19°028'	15°602'
				5631	13	0°811'	6°295'	5703	12	21°519'	12°740'	5775	15	13°840'	18°209'	5847	20	20°378'	15°706'
				5632	22	1°860'	6°310'	5704	25	22°885'	12°124'	5776	20	26°260'	18°660'				
				5633	12	2°742'	6°108'	5705	21	23°266'	12°512'	5777	13	16°858'	18°607'				
				5634	17	2°885'	6°506'	5706	11	23°575'	12°080								

R.A. 3<sup>h</sup> 28<sup>m</sup>

Plate 1775; 1920 Dec. 31.

## Provisional Constants.

A B C  
-01744 +00303 -1044D E F  
-00268 -01773 -3658Mag. = 15.6 - 0.94  $\sqrt{d}$ 

No.	d	x	y
5851	12	3.196	0.578
5852	12	3.201	0.218
5853	28	3.181	0.079
5854	18	2.904	0.028
5855	17	2.850	0.382
5856	31	2.906	0.244
5857	22	0.676	1.495
5858	23	8.636	1.544
5859	38	1.152	1.088
5860	21	1.344	1.048
5861	27	1.577	1.212
5862	19	2.306	1.070
5863	29	2.110	2.830
5864	13	1.107	2.879
5865	14	1.265	2.068
5866	13	1.321	2.206
5867	14	2.095	2.079
5868	20	3.268	3.100
5869	29	6.236	3.706
5870	33	8.531	3.106
5871	31	1.183	3.951
5872	12	2.801	3.734
5873	37	0.650	4.131
5874	17	2.129	4.079
5875	24	7.134	4.945
5876	24	7.802	4.574
5877	15	0.292	4.326
5878	21	10.066	4.484
5879	19	1.143	4.866
5880	15	1.271	4.674
5881	23	1.272	4.930
5882	33	10.319	4.318
5883	14	17.200	4.940
5884	18	10.471	4.202
5885	25	10.564	4.622
5886	13	2.347	4.945
5887	21	10.000	5.851
5888	33	10.356	5.364
5889	25	1.010	5.138
5890	23	1.162	5.234
5891	24	20.040	5.072
5892	31	2.134	5.196
5893	13	2.282	5.082
5894	21	4.730	6.590
5895	15	1.727	6.081
5896	26	2.012	6.208
5897	26	2.180	7.254
5898	45	11.736	7.512
5899	25	12.308	7.970
5900	14	1.832	7.240
5901	14	18.639	7.781
5902	13	20.532	7.678
5903	34	10.014	8.399
5904	31	12.736	8.176
5905	12	14.804	8.038

R.A. 3<sup>h</sup> 36<sup>m</sup>

Plate 1519; 1920 Jan. 14.

## Provisional Constants.

A B C  
-01754 +00300 -0724D E F  
-00290 -01752 -3603Mag. = 15.8 - 0.94  $\sqrt{d}$ 

No.	d	x	y
6051	23	1.010	0.103
6052	31	1.858	0.440
6053	38	1.912	0.309
6054	20	4.113	0.247
6055	38	1.195	0.038
6056	25	17.580	0.178
6057	19	18.123	0.100
6058	44	18.102	0.573
6059	37	21.498	0.036
6060	24	1.321	1.742
6061	18	4.789	1.212
6062	41	7.233	1.524
6063	22	9.002	1.974
6064	14	15.776	1.116
6065	30	19.098	1.821
6066	23	20.830	1.520
6067	10	9.285	2.510
6068	41	10.559	2.626
6069	39	11.472	2.659
6070	21	14.977	2.132
6071	10	20.760	2.833
6072	11	23.568	2.951
6073	15	25.851	2.562
6074	19	1.852	3.798
6075	45	4.492	3.302
6076	20	5.285	3.988
6077	18	6.716	3.610
6078	10	10.576	3.878
6079	22	15.422	3.516
6080	18	20.283	3.529
6081	21	21.872	3.142
6082	29	23.006	3.900
6083	40	24.428	3.246
6084	25	6.952	4.993
6085	13	8.356	4.993
6086	19	12.240	4.550
6087	19	15.432	4.059
6088	11	17.864	4.950
6089	38	22.530	4.256
6090	14	25.994	4.252
6091	22	25.992	4.350
6092	19	1.414	5.016
6093	22	2.351	5.140
6094	16	7.692	5.160
6095	20	11.340	5.216
6096	25	14.142	5.952
6097	45	18.282	5.748
6098	11	19.538	5.778
6099	24	19.810	5.570
6100	49	23.599	5.567
6101	24	11.892	6.018
6102	19	13.510	6.000
6103	23	22.556	6.204
6104	15	3.176	7.075
6105	12	13.908	7.918

6178	13	13°332	13°467	6250*	47	9°724	20°030	6406	15	22°564	5°199	6478*	39	1°535	11°038
6179	17	14°158	13°892	6251	28	9°798	20°118	6407	26	23°702	5°932	6479	34	3°090	11°162
6180	16	17°060	13°021	6252	19	13°904	20°108	6408	15	24°046	5°934	6480*	56	3°842	11°286
6181	24	21°715	13°658	6253	29	15°898	20°942	6409	39	24°088	5°956	6481	16	7°111	11°281
6182	24	22°785	13°438	6254	21	16°010	20°942	6410	20	1°124	6°334	6482	13	7°088	11°140
6183	34	7°573	14°804	6255	17	16°395	20°402	6411	11	2°390	6°186	6483	17	9°985	11°314
6184	35	7°613	14°560	6256	11	2°104	21°510	6412	12	5°502	6°222	6484	21	10°926	11°908
6185	22	7°880	14°924	6257	19	6°945	21°766	6413	22	7°592	6°372	6485*	64	12°504	11°066
6186	23	9°012	14°622	6258	12	8°350	21°532	6414	13	9°860	6°776	6486	19	13°165	11°744
6187	19	13°233	14°122	6459	19	9°556	21°900	6415	17	10°488	6°994	6487	17	13°110	11°310
6188	17	14°150	14°057	6260	21	10°408	21°994	6416	15	15°872	6°916	6488	20	13°178	11°273
6189	22	14°323	14°516	6261	28	11°518	21°309	6417	32	19°474	6°124	6489	16	18°935	11°855
6190	23	15°424	14°960	6262	34	11°644	21°344	6418*	43	22°822	6°884	6490	21	21°496	11°900
6191	17	15°959	14°886	6263	9	15°040	21°846	6419	30	23°222	6°838	6491	29	1°130	12°941
6192	26	21°411	14°158	6264	11	15°368	21°668	6420*	52	24°116	6°168	6492	17	2°572	12°566
6193	33	0°585	15°864	6265	44	17°702	21°386	6421	30	24°591	6°348	6493	15	3°066	12°868
6194	24	3°862	15°237	6266	24	25°233	21°167	6422	34	24°614	6°904	6494	19	3°306	12°776
6195	36	10°136	15°868	6267	54	3°129	22°052	6423	16	25°803	6°157	6495	21	3°530	12°905
6196*	43	13°382	15°592	6268	20	3°978	22°538	6424	15	27°000	7°775	6496	16	11°850	12°346
6197	21	13°646	15°323	6269	25	4°695	22°314	6425*	39	3°358	7°802	6497	25	13°149	12°544
6198	27	14°768	15°108	6270	17	6°477	22°474	6426*	40	4°394	7°082	6498	22	14°364	12°721
6199	12	15°626	15°567	6271	45	12°745	22°322	6427	38	5°234	7°086	6499	25	15°866	12°370
6200	32	18°790	15°176	6272	23	12°801	22°890	6428	16	5°799	7°087	6500	17	16°566	12°148
6201*	51	18°900	15°895	6273	21	13°592	22°688	6429	15	6°258	7°150	6501	18	9°381	12°760
6202	25	21°203	15°138	6274	32	14°161	22°340	6430	21	6°489	7°074	6502	19	9°842	12°960
6203*	53	22°392	15°368	6275	46	23°468	22°762	6431	16	7°320	7°340	6503	22	14°146	13°564
6204	22	25°902	15°124	6276	12	23°920	22°686	6432	16	12°615	7°108	6504	24	3°821	13°934
6205	47	25°956	15°818	6277	13	5°678	23°462	6433	17	13°508	7°672	6505	23	12°748	13°526
6206	18	0°710	16°650	6278	31	7°340	23°782	6434*	38	14°381	7°804	6506	21	16°922	13°644
6207	32	3°528	16°264	6279	35	8°714	23°982	6435	18	14°903	7°270	6507	20	20°616	13°767
6208	25	3°854	16°206	6280	13	10°704	23°036	6436	13	14°935	7°656	6508	22	23°122	13°628
6209	12	5°385	16°406	6281	21	10°979	23°402	6437	16	17°816	7°127	6509	23	23°508	13°662
6210	13	9°834	16°386	6282	18	14°731	23°412	6438	17	18°680	7°120	6510	22	9°081	14°302
6211	15	21°215	16°022	6283	11	15°688	23°941	6439	16	18°765	7°734	6511	22	8°798	14°581
6212	10	22°528	16°482	6284	11	25°606	23°720	6440*	74	21°834	7°182	6512	27	8°920	14°980
6213*	48	22°923	16°481	6285	10	0°358	24°383	6441	22	19°438	8°093	6513	20	10°418	14°136
6214	31	2°786	17°028	6286	13	2°238	24°182	6442	12	4°160	8°586	6514	14	11°948	14°730
6215	17	4°112	17°506	6287	12	2°524	24°726	6443	15	6°558	8°904	6515	16	12°165	14°224
6216*	43	5°980	17°436	6288	10	3°152	24°906	6444	16	7°508	8°265	6516	15	13°626	14°950
6217	19	6°188	17°385	6289	38	5°210	24°386	6445	32	11°622	8°668	6517	18	24°166	14°228
6218	15	7°362	17°209	6290	27	6°958	24°800	6446	18	11°902	8°606	6518	41	25°145	14°626
6219	20	9°137	17°620	6291	22	6°969	24°839	6447	11	16°210	8°860	6519*	56	1°376	15°498
6220	15	9°486	17°221	6292	40	14°555	24°960	6448	32	17°168	8°606	6520	20	14°338	15°208
6221	37	10°374	17°960	6293	28	16°288	24°240	6449	17	19°510	8°112	6521*	41	19°41	15°902
6222	20	11°440	17°660	6294	26	18°078	24°005	6450	18	20°536	8°191	6522	20	6°520	15°932
6223	26	13°990	17°930	6295	19	21°642	24°934	6451	26	25°971	8°725	6523*	42	7°866	15°792
6224*	39	15°222	17°767	6296	21	23°308	24°461	6452	15	24°060	9°273	6524	16	8°574	15°264
6225	16	15°236	17°258	6297	18	24°974	24°212	6453	18	26°690	9°264	6525	21	9°458	15°124
6226	15	17°306	17°672	6298	20	24°979	24°892	6454	21	3°762	9°828	6526	12	10°356	15°082
6227	10	22°634	17°480	6299	20	5°911	25°624	6455	10	5°192	9°218	6527	16	11°240	15°862
6228	31	23°458	17°370	6300	30	7°804	25°252	6456	28	6°795	9°559	6528	16	13°894	15°262
6229	22	7°342	18°126	6301	20	11°965	25°866	6457	18	8°582	9°594	6529	15	14°190	15°844
6230*	57	11°793	18°207	6302	42	14°507	25°388	6458	11	9°972	9°839	6530	16	15°141	15°088
6231	13	12°240	18°331	6303	31	15°345	25°110	6459	16	10°474	9°760	6531	16	17°536	15°172
6232	19	12°280	18°908	6304	15	15°483	25°889	6460	17	10°386	9°575	6532	16	13°147	15°886
6233	21	12°404	18°536	6305	20	17°438	25°071	6461	16	11°913	9°194	6533	32	23°141	15°142
6234	18	15°582	18°076	6306	18	21°456	25°233	6462	18	16°528	9°328	6534	16	24°190	15°298
6235	37	21°052	18°212	6307	19	25°570	25°148	6463	30	20°586	9°736	6535	17	24°674	15°084
6236	14	24°252	18°033					6464	16	20°728	9°384	6536*	48	16°620	16°666
6237	37	1°480	19°951					6465	28	25°560	9°762	6537	40	10°940	16°233
6238*	43	7°014	19°400					6466	17	1°050	10°848	6538	13	14°147	16°440
6239	13	7°746	19°536					6467	10	3°904	10°328	6539	13	13°798	16°926
6240	26	10°485	19°046					6468	10	3°318	10°194	6540	16	14°886	16°949
6241	11	12°540	19°072					6469	19	3°118	10°194	6541	16	17°026	16°028
6242	27	12°812	19°950					6470	23	6°962	10°338	6542	16	20°540	16°642
6243	27	14°596	19°146					6471	10	8°569	10°874	6543	25	21°760	17°186
6244	23	15°665	19°638					6472	22	9°474	10°202	6544	27	4°832	17°134
6245	27	17°568	19°848					6473	16	11°734	10°238	6545*	46	5°391	17°566
6246	29	18°764	19°651					6474	27	11°771	10°334	6546	38	6°749	17°544
6247	19	20°332	19°266					6475	24	14°932	10°320	6547	19	8°966	17°214
6248*	49	20°710	19°448					6476	16	18°724	10°592	6548	22	9°555	17°950
6249	29	25°717	19°808					6477	28	0°302	11°470	6549	15	9°686	17°844



6550	20	10-208	17-278	6622	15	3-508	25-732	6692	36	23-194	3-477	6764	20	22-429	10-054	6836	30	6-548	17-410
6551	16	11-935	17-820	6623	24	4-392	25-236	6693	45	4-843	4-374	6765	15	24-026	10-890	6837	20	6-612	17-603
6552	15	17-584	17-508	6624	30	11-410	25-480	6694	16	7-252	4-460	6766	25	25-207	10-148	6838	16	12-156	17-097
6553	24	19-234	17-790	6625	15	11-710	25-130	6695	28	8-150	4-409	6767	12	2-870	11-141	6839	11	13-828	17-122
6554	17	21-198	17-126	6626	12	11-948	25-010	6696	20	10-379	4-022	6768	11	3-636	11-348	6840	14	15-040	17-438
6555	20	25-900	17-966	6627	19	15-344	25-702	6697	15	10-669	4-622	6769	13	5-775	11-078	6841	12	15-384	17-024
6556	10	2-978	18-140	6628	56	18-304	25-529	6698	14	13-372	4-218	6770	13	10-736	11-091	6842	10	15-599	17-046
6557	16	4-310	18-381					6699	29	19-258	4-340	6771	53	10-847	11-136	6843	11	15-654	17-568
6558	19	4-932	18-245					6700	11	0-150	5-325	6772	24	12-364	11-428	6844	16	18-309	17-680
6559	14	0-216	18-583					6701	34	1-663	5-158	6773	15	12-679	11-431	6845	10	21-300	17-090
6560	15	7-680	18-086					6702	35	7-143	5-183	6774	18	13-674	11-080	6846	13	23-494	17-173
6561	11	11-391	18-831					6703	10	7-191	5-050	6775	12	19-156	11-563	6847	40	1-034	18-603
6562	37	13-244	18-338					6704	16	9-497	5-044	6776	35	21-132	11-168	6848	19	3-688	18-040
6563	16	17-228	18-185					6705	32	14-730	5-923	6777	20	23-719	11-341	6849	16	17-935	18-806
6564	20	18-100	18-311					6706	11	18-065	5-778	6778	11	25-612	11-230	6850	20	22-088	18-650
6565	17	18-178	18-142					6707	14	19-825	5-470	6779	16	6-677	12-555	6851	23	23-316	18-645
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6568	17	20-910	18-018					6710	16	20-434	5-311	6782	35	8-030	12-846	6854	11	2-417	19-944
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6571	22	8-191	19-730					6713	31	0-826	6-045	6785	23	18-872	12-906	6857	15	8-826	19-420
6572	17	9-641	19-946					6714	25	1-295	6-039	6786	13	20-685	12-766	6858	27	8-775	19-938
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6574	11	12-082	19-996					6716	45	2-009	6-268	6788	20	0-838	13-744	6860	14	12-992	19-930
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6577	23	24-399	19-426					6719	16	3-402	6-231	6791	40	10-798	13-962	6863	31	4-293	20-804
6578	14	24-600	19-850					6720	30	7-034	6-482	6792	11	13-122	13-807	6864	46	6-882	20-458
6579	78	25-191	19-236					6721	16	7-664	6-204	6793	13	13-656	13-646	6865	35	7-007	20-233
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6581	17	8-304	20-601					6723	28	9-729	6-952	6795	15	21-270	13-386	6867	32	9-390	20-580
6582	13	9-496	20-752					6724	16	11-610	6-028	6796	13	22-500	13-236	6868	23	9-422	20-180
6583	30	13-290	20-850					6725	25	16-279	6-806	6797	14	23-441	13-082	6869	31	12-374	20-600
6584	31	13-668	20-918					6726	24	16-466	6-380	6798	23	13-116	14-071	6870	13	15-847	20-180
6585	28	14-263	20-243					6727	10	23-970	6-510	6799	18	19-200	14-358	6871	12	16-310	20-704
6586	17	17-238	20-656					6728	40	0-428	7-006	6800	42	2-943	14-710	6872	20	18-707	20-740
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6588	23	18-864	20-991					6730	20	6-320	7-360	6802	16	9-312	14-856	6874	54	0-458	21-411
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6594	59	22-024	21-288					6736	35	23-394	7-772	6808	10	17-608	14-850	6880	19	19-460	21-980
6595	22	25-762	21-552					6737	25	3-010	8-798	6809	12	18-750	14-692	6881	25	1-272	22-426
6596	50	2-250	22-830					6738	22	3-091	8-301	6810	23	19-102	14-812	6882	15	3-141	22-956
6597	16	2-708	22-796					6739	20	4-135	8-190	6811	25	22-222	14-641	6883	15	6-400	22-572
6598	22	6-954	22-478					6740	24	6-460	8-123	6812	25	0-953	15-258	6884	23	7-366	22-348
6599	24	8-249	22-804					6741	12	7-752	8-595	6813	15	1-935	15-398	6885	12	7-702	22-080
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6601	34	23-419	22-316					6743	21	18-520	8-888	6815	33	4-739	15-294	6887	15	8-876	22-650
6602	20	25-275	22-870					6744	20	23-840	8-930	6816	16	5-950	15-512	6888	23	11-500	22-678
6603	16	25-762	22-941					6745	24	3-210	9-840	6817	10	9-892	15-998	6889	17	14-082	22-470
6604	16	4-408	23-810					6746	12	5-094	9-020	6818	17	9-976	15-430	6890	28	14-092	22-705
6605	24	6-104	23-125					6747	13	6-974	9-985	6819	19	13-030	15-762	6891	14	19-654	22-574
6606	14	10-922	23-713					6748	16	9-209	9-999	6820	12	13-525	15-046	6892	12	3-630	23-016
6607	16	11-305	23-725					6749	12	11-164	9-890	6821	20	14-051	15-100	6893	24	4-609	23-020
6608	37	17-866	23-506					6750	15	13-261	9-390	6822	25	14-679	15-516	6894	25	6-626	23-421
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6612	20	3-796	24-990					6754	36	17-386	9-998	6826	20	3-926	16-440	6898	25	14-548	23-496
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6615	30	11-610	24-994					6757	40	25-142	9-764	6829	24	8-247	16-490	6901	14	19-032	23-172
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6617	23	16-244	24-847					6759	23	11-841	10-960	6831	10	17-470	16-650	6903	50	1-062	24-258
6618	26	21-579	24-778					6760	25	12-920	10-142	6832	30	19-886	16-488	6904	14	2-581	24-480
6619	57	23-185	24-142					6761	12	14-032	10-645	6833	20	23-261	16-910	6905	16	4-326	24-845
6620	10	24-688	24-391					6762	30	16-821	10-								

6908	14	14°048	24°198	6982	11	11°862	2°432	7054	34	19°228	8°110	7126	34	12°283	14°005	7198	17	10°221	20°300
6909	18	20°034	24°400	6983	47	14°224	2°044	7055	20	23°334	8°549	7127	45	18°151	14°034	7199	50	20°150	20°371
6910	25	21°232	24°608	6984	34	15°002	2°248	7056	25	1°387	9°208	7128	18	18°250	14°145	7200	10	20°330	20°843
6911	17	22°014	24°111	6985	11	15°226	2°523	7057	25	2°646	9°914	7129	28	18°201	14°140	7201	16	21°001	20°974
6912	22	23°376	24°002	6986	15	16°936	2°385	7058	15	3°850	9°261	7130	17	18°033	14°130	7202	31	21°113	20°301
6913	16	4°309	25°978	6987	11	17°033	2°136	7059	18	4°540	9°705	7131	22	23°290	14°570	7203	26	21°513	20°850
6914	26	5°660	25°785	6988	45	18°616	2°040	7060	16	5°106	9°623	7132	50	23°840	14°486	7204	24	23°311	20°080
6915	15	7°339	25°398	6989	40	19°576	2°858	7061	15	6°160	9°263	7133	43	24°362	14°932	7205	31	23°076	21°618
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6917	12	8°530	25°253	6991	21	24°568	2°302	7063	14	11°708	9°309	7135	16	28°21	15°038	7207	17	23°934	21°090
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6919	26	10°464	25°696	6993	13	25°563	2°187	7065	56	14°860	9°374	7137	28	4°941	15°900	7209	20	16°734	21°830
6920	36	11°560	25°517	6994	32	0°690	3°927	7066	29	15°380	9°762	7138	16	8°317	15°264	7210	17	16°878	21°203
6921	14	13°876	25°365	6995	42	1°012	3°846	7067	31	25°214	9°713	7139	43	8°540	15°683	7211	18	20°728	21°570
6922	28	14°778	25°026	6996	11	3°346	3°626	7068	25	0°354	10°136	7140	30	10°598	15°522	7212	15	21°330	21°326
6923	43	18°592	25°292	6997	11	3°704	3°260	7069	30	3°132	10°486	7141	15	10°633	15°070	7213	19	4°150	22°310
6924	17	21°828	25°820	6998	18	11°200	3°080	7070	50	3°328	10°101	7142	30	13°912	15°147	7214	66	8°388	22°048
				6999	17	12°115	3°282	7071	12	4°218	10°161	7143	100	19°882	15°681	7215	26	9°736	22°186
				7000	11	12°250	3°372	7072	24	10°565	10°086	7144	18	23°900	15°805	7216	30	16°060	22°060
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				7003	29	22°088	3°548	7075	16	17°394	10°100	7147	40	7°349	16°381	7219	17	18°117	22°062
				7004	44	25°264	3°046	7076	48	24°770	10°125	7148	24	9°914	16°872	7220	16	16°140	22°141
				7005	65	5°844	4°450	7077	25	1°664	11°700	7149	21	10°728	16°950	7221	14	7°914	23°740
				7006	14	7°122	4°756	7078	22	1°964	11°247	7150	14	19°218	16°094	7222	17	9°168	24°190
				7007	18	7°960	4°946	7079	16	3°560	11°566	7151	18	21°758	16°005	7223	27	15°573	24°368
				7008	32	8°250	4°346	7080	50	6°616	11°868	7152	20	22°266	16°791	7224	43	4°233	24°516
				7009	21	12°391	4°914	7081	19	7°366	11°497	7153	24	12°908	17°276	7225	20	7°731	24°115
				7010	9	12°770	4°540	7082	15	7°384	11°124	7154	16	15°534	17°537	7226	16	13°790	24°116
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				7012	32	19°888	4°906	7084	47	11°098	11°974	7156	14	8°027	17°000	7228	51	14°156	24°135
				7013	14	19°890	4°090	7085	18	11°768	11°256	7157	15	8°184	17°618	7229	14	15°381	24°812
				7014	37	2°406	5°994	7086	17	12°475	11°508	7158	20	13°508	17°300	7230	28	18°251	24°570
				7015	44	3°756	5°945	7087	11	14°898	11°600	7159	17	13°838	17°066	7231	14	16°970	25°128
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				7019	27	16°270	5°550	7091	27	23°645	11°320	7163	44	17°388	17°340	7235	23	13°880	25°140
				7020	10	17°655	5°640	7092	32	2°668	12°001	7164	16	19°531	17°843	7236	24	13°868	25°568
				7021	32	20°478	5°436	7093	31	4°680	12°850	7165	17	20°086	17°006	7237	11	22°380	25°909
				7022	60	23°556	5°432	7094	24	6°395	12°190	7166	32	20°136	17°430				
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				7024	27	7°210	6°085	7096	40	10°820	12°361	7168	18	20°256	17°060				
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				7027	15	11°070	6°736	7099	27	17°478	12°621	7171	33	25°006	17°435				
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				7029	42	18°903	6°260	7101	30	18°768	12°920	7173	17	5°360	18°177				
				7030	22	24°594	6°420	7102	16	20°796	12°659	7174	16	6°162	18°210				
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				7038	14	12°532	7°582	7110	15	5°383	13°855	7182	28	20°920	18°112				
				7039	10	17°430	7°644	7111	17	5°690	13°730	7183	25	0°152	19°036				
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				7041	14	18°770	7°984	7113	30	11°098	13°179	7185	18	3°370	19°000				
				7042	25	18°903	7°570	7114	15	11°070	13°580	7186	80	4°191	19°300				
				7043	42	12°880	8°139	7115	19	12°876	13°408	7187	16	6°110	19°766				
				7044	48	4°063	8°137	7116	16	12°518	13°970	7188	21	9°888	19°738				
				7045	38	4°133	8°202	7117	31	18°765	13°494	7189	12	16°258	19°918				
				7046	24	9°024	8°718	7118	30	19°120	13°445	7190	16	0°925	20°361				
				7047	20	11°714	8°510	7119	13	19°161	13°471	7191	17	1°408	20°132				
				7048	14	12°060	8°992	7120	35	19°342	13°049	7192	14	7°880	20°117				
				7049	48	12°374	8°180	7121	21	20°611	13°850	7193	26	8°966	20°646				
				7050	26	14°666	8°049	7122	13	21°485	13°524	7194	18	10°980	20°165				
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				7053	25	16°430	8°416	7125	27	8°460	14°810	7197	15	18°674	20°790				

R.A. 4<sup>h</sup> 0<sup>m</sup>

Plate 1498; 1920 Jan. 10.

Provisional Constants.

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7261	15	17°038	04953	7333	9	4-866	8-836	7405	17	20-223	16-654	7556	12	2-100	6-842
7262	44	18-348	0270	7334	10	5-033	8-875	7406	10	20-502	16-252	7557	22	2-169	6-262
7263	32	20-380	00883	7335	23	6-537	8-056	7407	13	20-884	16-245	7558	45	5-331	6-530
7264	41	24-058	0040	7336	48	11-047	8-560	7408	37	21-803	16-804	7559	19	5-689	6-678
7265	14	3-784	1-012	7337	11	13-439	8-850	7409	29	22-828	16-732	7560	16	10-231	6-627
7266	21	7-553	1-726	7338	31	18-880	8-832	7410	33	3-328	17-358	7561	40	13-083	6-038
7267	24	17-120	1-604	7339	20	20-548	8-200	7411	32	4-702	17-891	7562	29	14-665	6-546
7268	42	18-310	1-440	7340	28	21-338	8-635	7412	19	6-849	17-135	7563	19	14-680	6-095
7269	20	19-473	1-885	7341	29	3-423	9-660	7413	14	9-090	17-262	7564	48	14-818	6-367
7270	11	19-062	1-904	7342	32	6-382	9-652	7414	16	9-192	17-160	7565	27	18-272	6-094
7271	26	25-068	1-600	7343	23	15-512	9-576	7415	21	14-981	17-611	7566	32	19-143	6-701
7272	18	2-075	2-234	7344	16	17-316	9-108	7416	31	20-981	17-040	7567	30	4-876	7-708
7273	22	3-074	2-501	7345	22	20-455	9-507	7417	18	21-448	17-237	7568	34	12-220	7-719
7274	39	3-378	2-970	7346	23	20-742	9-699	7418	10	22-178	17-302	7569	47	13-012	7-415
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7331	9	0-016	8-064	7403	37	15-560	16-862					7626	34	11-236	11-563
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R.A. 4<sup>h</sup> 16<sup>m</sup>

Plate 1494 ; 1920 Jan. 9.

Provisional Constants.

A B C  
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7520	23	15-685	1-285
7521*	44	15-800	2-165
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7555*	37	1-162	6-093



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7688	13	20-640	16-790	7760	10	7-243	22-042	7922	13	7-460	27-341	7922	13	7-460	27-341	7994	22	2-120	12-430
7689	32	22-716	16-915	7761	18	7-733	22-192	7923	15	14-554	27-450	7923	15	14-554	27-450	7995	38	2-175	12-051
7690	32	23-626	16-948	7762	21	8-014	22-710	7924	24	17-035	27-948	7924	24	17-035	27-948	7996	17	4-100	12-621
7691	26	24-460	16-857	7763	27	1													

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8700	14	9°13'6"	14°03'4"	8772	32	5°09'2"	19°19'2"	8844	11	17°9'10"	23°16'2"	8923	35	4°8'01"	2°47'4"	8995	16	8°9'82"	8°3'46"
8701	22	9°3'77"	14°8'88"	8773	33	6°24'0"	19°8'73"	8845	52	19°2'34"	23°6'70"	8924*	52	6°4'05"	2°18'4"	8996	16	12°7'34"	8°9'34"
8702	21	12°3'84"	14°8'04"	8774	22	6°27'6"	19°1'55"	8846	30	19°7'45"	23°12'6"	8925	19	7°2'80"	2°59'8"	8997	20	13°1'36"	8°9'16"
8703	14	14°3'40"	14°4'50"	8775	34	10°8'24"	19°5'23"	8847	12	21°3'44"	23°6'86"	8926	32	13°1'06"	2°8'24"	8998	26	14°6'28"	8°3'90"
8704	14	17°3'74"	14°4'15"	8776	15	10°9'88"	19°0'46"	8848	12	3°3'56"	24°5'98"	8927	16	15°3'47"	2°8'14"	8999*	39	16°5'90"	8°8'17"
8705	12	19°8'10"	14°5'68"	8777	32	11°0'46"	19°0'56"	8849	14	7°5'86"	24°4'40"	8928	19	16°3'30"	2°4'65"	9000	21	17°6'76"	8°0'44"
8706	16	24°6'09"	14°0'46"	8778	19	12°0'52"	19°4'84"	8850	30	11°2'45"	24°3'75"	8929	33	16°8'62"	2°8'98"	9001	16	19°8'10"	8°3'68"
8707	24	25°1'34"	14°7'35"	8779*	35	14°0'15"	19°4'18"	8851	12	12°5'66"	24°2'82"	8930	16	18°7'92"	2°30'4"	9002	22	20°2'14"	8°2'96"
8708	31	0°0'94"	15°0'68"	8780	29	15°3'28"	19°4'18"	8852	22	12°6'50"	24°0'15"	8931	22	18°8'86"	2°44'2"	9003	34	21°1'52"	8°4'06"
8709	16	2°7'44"	15°5'91"	8781	30	16°2'60"	19°6'32"	8853	24	13°4'56"	24°4'71"	8932	25	21°7'10"	2°60'6"	9004	16	21°2'60"	8°9'82"
8710	12	2°9'70"	15°5'01"	8782	34	16°3'22"	19°8'78"	8854	39	14°9'39"	24°5'30"	8933	16	22°0'56"	2°99'5"	9005	16	23°6'29"	8°5'92"
8711	10	5°10'5"	15°6'75"	8783	34	16°8'60"	19°7'11"	8855	23	19°3'13"	24°2'36"	8934	17	24°5'14"	2°5'34"	9006	21	23°8'78"	8°6'62"
8712	20	5°3'40"	15°0'51"	8784	12	19°3'74"	19°7'36"	8856	34	20°1'15"	24°0'20"	8935	28	1°2'55"	3°99'4"	9007	17	2°9'02"	9°2'45"
8713	22	5°6'99"	15°0'42"	8785	12	19°9'16"	19°2'66"	8857	22	20°8'28"	24°5'90"	8936	22	3°4'04"	3°76'6"	9008	14	4°8'27"	9°5'98"
8714	28	7°5'12"	15°8'82"	8786	20	20°9'50"	19°3'38"	8858	24	21°0'78"	24°9'92"	8937	16	5°6'27"	3°88'8"	9009	15	6°5'80"	9°1'64"
8715	29	8°5'33"	15°1'60"	8787	12	23°0'02"	19°1'62"	8859	30	0°6'84"	25°4'12"	8938	16	12°0'64"	3°69'4"	9010	20	10°6'58"	9°8'19"
8716	27	9°0'76"	15°2'32"	8788	24	24°8'50"	19°8'25"	8860	21	2°9'42"	25°6'66"	8939	19	13°6'48"	3°96'9"	9011	16	12°1'00"	9°9'34"
8717	17	10°2'24"	15°7'36"	8789	11	25°7'72"	19°1'96"	8861	19	5°1'74"	25°6'04"	8940	16	16°6'52"	3°58'6"	9012	21	13°5'44"	9°2'14"
8718	31	13°0'20"	15°3'78"	8790	33	25°8'70"	19°2'02"	8862	17	5°3'98"	25°8'29"	8941	16	17°0'63"	3°75'2"	9013	22	13°5'60"	9°1'32"
8719	13	13°2'66"	15°5'33"	8791	13	0°49'8"	20°6'04"	8863	11	5°8'44"	25°3'80"	8942	12	17°49'1"	3°82'8"	9014*	50	13°8'52"	9°3'00"
8720*	38	14°9'90"	15°7'80"	8792	11	3°32'6"	20°5'35"	8864	34	14°0'77"	25°9'10"	8943	13	18°1'88"	3°81'6"	9015	23	14°4'02"	9°2'44"
8721	15	15°7'85"	15°6'97"	8793	25	4°38'6"	20°5'48"	8865	10	20°8'28"	25°7'18"	8944	18	19°9'23"	3°82'4"	9016	11	16°7'56"	9°7'42"
8722	32	16°3'44"	15°0'17"	8794	13	6°43'0"	20°3'58"	8866	34	21°5'12"	25°9'42"	8945	18	21°2'39"	3°5'14"	9017	17	17°1'66"	9°5'06"
8723	18	19°5'59"	15°6'58"	8795	32	6°8'64"	20°7'62"	8867	40	21°7'76"	25°6'38"	8946	36	24°7'54"	3°88'8"	9018	34	2°6'32"	9°2'16"
8724	25	22°9'73"	15°3'62"	8796	34	12°0'17"	20°9'31"	8868	19	24°7'04"	25°1'81"	8947	45	25°2'73"	3°35'5"	9019	17	4°5'70"	10°9'54"
8725	27	22°9'85"	15°8'22"	8797*	36	15°5'71"	20°3'78"	8869	13	24°7'64"	25°6'75"	8948	35	2°9'64"	4°27'8"	9020	17	6°0'60"	10°3'38"
8726	29	24°1'45"	15°6'07"	8798	15	17°8'81"	19°9'79"					8949	24	4°3'88"	4°14'4"	9021	22	12°5'88"	10°2'54"
8727	11	6°6'68"	16°4'92"	8799	23	21°9'66"	20°3'00"					8950	37	7°7'97"	4°19'2"	9022	23	13°0'24"	10°9'42"
8728	15	8°3'50"	16°4'64"	8800	11	0°54'2"	21°6'62"					8951	15	7°9'00"	4°8'56"	9023	16	13°2'06"	10°4'32"
8729	24	10°0'20"	16°7'45"	8801	38	6°8'22"	21°7'28"					8952	15	8°3'18"	4°9'26"	9024	22	13°3'88"	10°0'86"
8730	27	18°7'14"	16°4'37"	8802	25	14°1'40"	21°4'78"					8953*	39	10°4'31"	4°20'8"	9025	12	13°7'52"	10°1'46"
8731	24	20°8'22"	16°4'44"	8803	32	15°0'84"	21°3'20"					8954	37	15°6'50"	4°7'32"	9026	15	15°1'41"	10°5'76"
8732	36	20°9'04"	16°8'81"	8804	10	19°4'64"	21°4'02"					8955*	50	20°1'32"	4°43'8"	9027*	40	16°0'94"	10°3'01"
8733	12	20°9'32"	16°1'58"	8805	38	20°4'88"	21°7'36"					8956	44	20°2'40"	4°6'38"	9028	21	17°8'68"	10°8'86"
8734	24	22°3'96"	16°1'07"	8806	19	21°1'21"	21°4'50"					8957	32	23°7'58"	4°35'0"	9029	19	20°8'18"	10°4'46"
8735	22	2°0'80"	17°2'22"	8807*	42	21°4'15"	21°0'51"					8958	41	23°9'84"	4°32'2"	9030	23	22°0'94"	10°4'78"
8736	28	3°5'52"	17°8'32"	8808	15	22°2'84"	21°5'49"					8959	16	2°4'40"	5°22'6"	9031	12	22°8'25"	10°0'76"
8737	17	7°2'95"	17°2'30"	8809	27	23°3'36"	21°5'34"					8960	23	6°6'66"	5°88'5"	9032	16	23°3'42"	10°2'60"
8738	30	7°9'38"	17°8'61"	8810	28	24°4'12"	21°8'08"					8961*	37	9°3'40"	5°7'16"	9033	36	24°5'60"	10°6'04"
8739	32	8°2'00"	17°6'81"	8811	16	24°7'58"	21°2'74"					8962	20	9°8'56"	5°12'4"	9034	21	2°9'04"	11°3'32"
8740*	40	9°3'15"	17°2'06"	8812	32	0°19'5"	22°5'54"					8963	16	11°7'06"	5°13'4"	9035	20	4°7'16"	11°8'58"
8741*	34	12°44'46"	17°6'85"	8813	26	0°7'46"	22°0'67"					8964	15	13°8'46"	5°03'5"	9036	20	5°7'36"	11°1'35"
8742	30	16°6'66"	17°0'11"	8814	51	1°48'6"	22°0'06"					8965	14	15°1'84"	5°9'14"	9037	16	10°5'22"	11°4'20"
8743	24	18°6'69"	17°4'28"	8815	25	1°52'0"	22°2'10"					8966	26	17°9'58"	5°39'4"	9038	36	13°4'89"	11°0'92"
8744*	33	19°4'20"	17°9'38"	8816	17	5°00'5"	22°2'03"					8967	16	19°4'98"	5°54'3"	9039	18	18°0'84"	11°0'38"
8745	24	19°6'93"	17°7'76"	8817	24	5°48'8"	22°2'23"					8968	18	6°3'26"	6°8'34"	9040	20	19°0'06"	11°00'3"
8746	21	19°9'18"	17°4'32"	8818	15	5°59'0"	22°4'96"					8969	20	8°5'22"	6°6'36"	9041	16	25°8'18"	11°0'46"
8747	21	20°8'20"	17°2'24"	8819	13	6°39'8"	22°2'92"					8970	13	10°3'64"	6°53'0"	9042	19	0°7'16"	12°02'6"
8748	17	23°6'02"	17°8'24"	8820	14	6°7'54"	22°2'80"					8971	16	11°0'34"	6°64'6"	9043	18	2°844"	12°77'6"
8749	35	6°6'58"	18°1'62"	8821	21	8°02'5"	22°2'02"					8972	17	12°9'22"	6°99'2"	9044	23	3°380"	12°85'6"
8750	14	6°9'57"	18°5'96"	8822	22	8°72'6"	22°1'47"					8973	13	13°3'23"	6°80'7"	9045	17	3°468"	12°90'4"
8751	33	8°8'02"	18°3'44"	8823	30	9°11'3"	22°1'26"					8974	15	15°7'70"	6°72'9"	9046	20	4°583"	12°42'3"
8752	18	9°2'18"	18°4'04"	8824	26	9°16'8"	22°0'80"					8975	28	16°8'90"	6°92'4"	9047	16	8°591"	12°07'2"
8753*	44	9°6'01"	18°4'08"	8825	12	10°28'5"	22°8'40"					8976	34	21°8'66"	6°74'5"	9048	14	9°889"	12°52'4"
8754	22	13°2'08"	18°0'76"	8826	22	10°56'0"	22°8'15"					8977*	35	22°0'92"	6°44'6"	9049	12	10°9'89"	12°68'6"
8755	24	14°5'21"	18°8'17"	8827	18	12°0'30"	22°3'78"					8978	22	22°1'97"	6°46'6"	9050	16	11°2'43"	12°77'0"
8756	30	15°4'28"	18°3'66"	8828	31	13°3'74"	22°7'32"					8979	15	22°9'76"	6°81'8"	9051	12	12°7'00"	12°08'7"
8757	30	15°9'34"	18°7'81"	8829	12	13°6'65"	22°7'62"					8980*	44	25°4'80"	6°39'2"	9052	12	14°2'35"	12°78'1"
8758	16	17°9'60"	18°4'60"	8830	34	14°4'68"	22°5'26"					8981	39	25°64'1"	6°30'3"	9053	19	15°0'11"	12°4'55"
8759	32	19°3'88"	18°0'04"	8831	31	16°9'54"	22°0'40"					8982	20	25°744"	6°744"	9054	16	15°5'65"	12°8'06"
8760	31	19°4'00"	18°2'02"	8832	25	20°2'00"	22°4'74"					8983	22	0°8'42"	7°61'5"	9055	22	15°9'01"	12°6'38"
8761	13	19°4'37"	18°4'89"	8833	19	21°5'24"	22°4'98"					8984	36	3°4'78"	7°21'8"	9056	22	18°5'20"	12°6'97"
8762	17	19°9'30"	18°7'96"	8834	27	21°8'36"	22°4'88"					8985	17	4°4'65"	7°64'8"	9057*	34	21°1'54"	12°05'6"
8763	11	20°8'78"	18°5'22"	8835	14	22°2'24"	22°2'50"					8986	15	6°3'83"	7°87'6"	9058	21	21°9'06"	12°18'7"
8764	12	20°9'51"	18°4'19"	8836	24	22°6'12"	22°0'50"					8987	20	13°8'59"	7°30'4"	9059	19		

9067*	40	15-232	13-063	9139	22	21-960	17-794	9211	12	9-050	23-276	9267	9	5-636	2-706	9339	10	12-305	8-694
9068	16	17-190	13-544	9140	19	22-312	17-846	9212	16	9-225	23-889	9268	27	7-004	2-612	9340	18	13-558	8-352
9069	14	19-192	13-636	9141	12	22-886	17-288	9213	17	17-183	23-635	9269	17	7-563	2-786	9341	10	16-831	8-562
9070	16	20-878	13-482	9142	18	23-075	17-184	9214	36	17-620	23-225	9270	22	9-250	2-762	9342	35	18-406	8-555
9071	19	22-944	13-126	9143	17	25-620	17-008	9215	23	23-110	23-900	9271	47	9-310	2-378	9343	46	21-650	8-790
9072	26	23-010	13-180	9144	18	4-424	18-548	9216	18	22-349	23-358	9272	20	12-110	2-078	9344	14	23-078	8-960
9073	15	23-160	13-994	9145	14	8-156	18-561	9217	21	24-751	23-118	9273	10	12-173	2-250	9345	20	23-882	8-077
9074	17	23-492	13-338	9146	14	10-606	18-734	9218	25	7-714	24-097	9274	8	13-350	2-500	9346	26	24-378	8-561
9075	16	23-651	13-897	9147	23	11-171	18-686	9219	15	9-984	24-620	9275*	46	15-002	2-152	9347	21	4-604	9-092
9076	20	23-792	13-565	9148*	40	11-231	18-169	9220	17	11-912	24-346	9276	8	21-382	2-019	9348	25	7-266	9-284
9077	16	3-084	14-183	9149	21	14-160	18-916	9221	36	12-299	24-726	9277	12	21-400	2-870	9349	12	8-186	9-219
9078	18	3-534	14-864	9150	17	16-485	18-964	9222	42	12-660	24-436	9278	24	22-827	2-840	9350	18	10-436	9-598
9079	25	4-691	14-106	9151	20	17-002	18-470	9223	15	12-768	24-927	9279	44	2-656	3-564	9351	15	13-062	9-330
9080	14	4-795	14-304	9152	16	17-435	18-284	9224	42	16-400	24-984	9280	44	4-330	3-777	9352	25	13-354	9-386
9081	15	6-350	14-873	9153	34	21-154	18-024	9225	21	17-705	24-992	9281	29	5-050	3-801	9353	14	13-378	9-160
9082	13	11-896	14-342	9154	16	1-484	19-328	9226	15	19-573	24-727	9282	25	6-429	3-346	9354	9	13-388	9-594
9083	16	12-004	14-886	9155	18	3-341	19-956	9227	23	19-674	24-800	9283	44	9-780	3-531	9355	25	14-445	9-806
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9085	17	20-200	14-778	9157	28	4-350	19-306	9229	64	0-366	25-826	9285	19	12-256	3-544	9357	31	18-331	9-369
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9093	20	2-556	15-754	9165	30	14-408	19-754	9237	15	15-302	25-615	9293*	68	23-972	3-800	9365	12	0-781	10-616
9094	16	3-844	15-025	9166	18	18-578	19-442	9238	14	15-958	25-376	9294	17	25-376	3-122	9366	38	2-020	10-950
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9102	15	18-169	15-014	9174	16	8-917	20-734	9302*	77	24-870	4-800	9302*	77	24-870	4-800	9374*	64	16-016	10-280
9103	16	18-975	15-209	9175	22	12-598	20-156	9303	11	25-241	4-844	9303	11	25-241	4-844	9375	17	17-796	10-476
9104	13	19-054	15-412	9176	16	12-712	20-164	9304	31	1-366	5-175	9304	31	1-366	5-175	9376	10	20-944	10-558
9105	16	19-202	15-626	9177	12	14-829	20-776	9305	27	3-954	5-244	9305	27	3-954	5-244	9377	30	24-834	10-170
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9107*	38	19-841	15-453	9179	30	17-813	20-595	9307	12	17-746	5-761	9307	12	17-746	5-761	9379	19	3-310	11-384
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9109*	37	22-922	15-404	9181	28	23-862	20-754	9309	31	24-430	5-174	9309	31	24-430	5-174	9381	10	6-064	11-660
9110	16	23-964	15-728	9182	16	0-806	21-726	9310*	49	2-902	6-650	9310*	49	2-902	6-650	9382	19	9-320	11-406
9111	18	24-507	15-908	9183	21	1-856	21-694	9311	46	3-668	6-560	9311	46	3-668	6-560	9383	26	11-476	11-244
9112	22	25-235	15-936	9184	23	2-936	21-948	9312*	40	4-132	6-070	9312*	40	4-132	6-070	9384	8	22-850	11-742
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9114	21	0-817	16-284	9186	25	5-016	21-952	9314	9	6-804	6-476	9314	9	6-804	6-476	9386*	39	23-537	11-645
9115	20	5-158	16-463	9187	28	6-894	21-112	9315	20	8-242	6-650	9315	20	8-242	6-650	9387	14	25-092	11-499
9116	22	5-294	16-148	9188	20	8-324	21-646	9316	30	8-291	6-134	9316	30	8-291	6-134	9388	9	3-021	12-825
9117	22	5-400	16-924	9189	20	8-351	21-951	9317	26	8-958	6-055	9317	26	8-958	6-055	9389	10	4-780	12-616
9118	18	7-314	16-352	9190	22	9-752	21-246	9318	45	21-584	6-316	9318	45	21-584	6-316	9390	9	8-554	12-671
9119	16	9-248	16-274	9191	10	10-522	21-816	9319	11	2-496	7-715	9319	11	2-496	7-715	9391*	43	10-782	12-746
9120	16	10-075	16-900	9192	16	12-910	21-674	9320	15	3-184	7-006	9320	15	3-184	7-006	9392	12	11-760	12-840
9121	12	10-080	16-894	9193	17	17-234	21-355	9321	18	3-514	7-500	9321	18	3-514	7-500	9393	17	12-390	12-010
9122	22	11-235	16-353	9194	21	18-372	21-157	9322	30	3-579	7-494	9322	30	3-579	7-494	9394	20	13-363	12-391
9123	15	12-154	16-194	9195	20	24-398	21-572	9323	13	7-646	7-091	9323	13	7-646	7-091	9395	17	13-592	12-643
9124	25	16-144	16-347	9196	16	0-065	22-690	9324	10	8-114	7-971	9324	10	8-114	7-971	9396	13	14-740	12-752
9125	35	16-688	16-479	9197	22	0-376	22-674	9325	20	8-834	7-739	9325	20	8-834	7-739	9397	10	17-098	12-354
9126	32	17-674	16-378	9198	16	1-145	22-223	9326	34	11-133	7-106	9326	34	11-133	7-106	9398	12	17-500	12-640
9127	17	19-697	16-774	9199	12	5-278	22-600	9327	31	13-662	7-214	9327	31	13-662	7-214	9399	12	17-514	12-334
9128	20	21-542	16-182	9200	16	5-383	22-436	9328	12	15-696	7-784	9328	12	15-696	7-784	9400	12	18-442	12-816
9129	22	22-332	16-952	9201	16	7-376	22-425	9329	19	1-506	1-184	9329	19	1-506	1-184	9401	12	18-442	12-682
9130	16	2-058	17-978	9202	16	7-666	22-160	9330*	51	19-360	7-258	9330*	51	19-360	7-258				



13305	8.694	9411	12	1:28.0	13:97.0	9483	15	11:98.1	17:63.8	9555	59	15:18.7	23:14.9	9632	22	6:81.4	2:21.4	9704	28	25:89.2	6:23.0
13358	8.552	9412	28	3:13.6	13:28.7	9484*	38	13:23.4	17:44.6	9556	28	16:25.7	23:61.8	9633	26	10:08.0	2:99.0	9705	22	1:28.0	7:88.6
13406	8.561	9413	26	3:73.2	13:49.0	9485	12	17:97.0	17:86.0	9557	23	16:35.1	23:31.6	9634*	41	12:74.5	2:75.6	9706	18	6:47.4	7:08.1
13450	8.555	9414	19	3:97.0	13:52.0	9486	10	18:80.5	17:68.0	9558	45	19:10.0	23:54.1	9635	16	14:02.0	2:92.7	9707	16	9:09.0	7:58.4
13478	8.579	9415	21	5:61.4	13:96.4	9487	15	20:23.2	17:02.0	9559	100	19:07.4	23:78.5	9636	37	14:65.5	2:31.0	9708	19	9:50.0	7:64.6
13482	8.582	9416	25	6:74.9	13:39.9	9488	10	20:68.4	17:06.0	9560	12	25:00.4	23:00.9	9637	33	16:66.0	2:65.0	9709	12	9:82.8	7:94.0
13478	8.561	9417	10	7:83.6	13:59.2	9489	10	21:02.2	17:96.0	9561	60	6:61.1	24:12.0	9638	20	16:73.5	2:99.2	9710	40	10:53.0	7:54.0
13478	8.561	9418	23	8:36.0	13:51.5	9490	12	24:25.7	17:85.0	9562	40	9:20.0	24:88.0	9639	43	18:26.6	2:99.4	9711*	55	11:66.8	7:47.5
13478	8.561	9419	12	12:08.0	13:40.0	9491	18	24:85.6	17:05.9	9563	12	12:86.1	24:16.0	9640	13	18:32.4	2:87.0	9712	17	11:69.3	7:77.0
13478	8.561	9420	19	13:10.8	13:08.3	9492	50	25:90.2	17:21.0	9564	23	22:10.0	24:68.4	9641	19	18:97.0	2:25.0	9713	12	13:94.7	7:81.4
13478	8.561	9421	9	16:32.0	13:74.4	9493	11	2:27.9	18:90.5	9565	27	25:14.3	24:16.0	9642*	62	1:33.2	3:68.7	9714	19	15:81.4	7:96.4
13478	8.561	9422	33	18:78.8	13:73.4	9494	19	5:05.4	18:84.0	9566	18	3:54.8	25:88.0	9643	27	2:72.0	3:01.6	9715	18	17:61.0	7:02.7
13478	8.561	9423	28	20:44.5	13:48.5	9495	12	5:81.0	18:40.0	9567	31	10:72.8	25:12.8	9644*	58	5:04.4	3:82.0	9716	16	18:68.6	7:82.3
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13478	8.561	9427*	44	25:37.8	13:00.6	9499	11	21:20.0	18:81.5	9571	52	24:05.0	25:25.0	9648	12	12:90.9	3:64.7	9720	27	22:41.6	7:98.0
13478	8.561	9428	11	0:04.0	14:41.8	9500*	43	21:27.7	18:26.2					9649	16	17:10.0	3:82.0	9721	12	23:50.6	7:72.4
13478	8.561	9429	29	1:09.1	14:48.0	9501	22	22:10.6	18:54.8					9650	40	17:61.0	3:11.0	9722	14	25:41.0	7:34.4
13478	8.561	9430	11	1:14.2	14:31.4	9502	21	23:65.0	18:41.6					9651	18	18:00.4	3:46.4	9723	18	0:49.3	8:76.0
13478	8.561	9431*	49	3:47.2	14:99.6	9503	10	25:62.0	18:01.8					9652	40	21:36.4	3:74.7	9724	30	1:76.6	8:36.0
13478	8.561	9432	22	6:22.0	14:95.0	9504	28	1:41.1	19:91.3					9653	18	23:88.4	3:94.9	9725	15	6:92.0	8:69.8
13478	8.561	9433*	91	6:54.1	14:70.4	9505	41	5:06.0	19:24.8					9654	22	24:06.6	3:84.4	9726	16	6:98.4	8:76.0
13478	8.561	9434	9	8:10.6	14:56.4	9506	10	5:56.6	19:09.1					9655*	60	2:21.9	4:60.5	9727	19	7:20.0	8:75.6
13478	8.561	9435	10	11:85.8	14:53.8	9507	14	6:66.6	19:75.0					9656	17	2:59.8	4:70.2	9728	19	8:11.0	8:23.2
13478	8.561	9436	12	13:22.4	14:67.0	9508	32	7:77.8	19:57.9					9657	19	4:30.4	4:81.0	9729	24	8:12.3	8:86.2
13478	8.561	9437	22	14:49.0	14:59.0	9509*	63	10:95.0	19:15.4					9658	19	6:53.4	4:82.4	9730	28	8:14.0	8:88.4
13478	8.561	9438	10	15:29.0	14:28.0	9510	33	11:62.0	19:59.3					9659	14	7:93.6	4:79.6	9731	29	8:49.4	8:56.4
13478	8.561	9439*	40	16:77.2	14:57.8	9511	11	12:97.0	19:13.4					9660	16	10:57.0	4:90.2	9732	16	8:82.2	8:24.6
13478	8.561	9440	9	16:88.4	14:16.6	9512	11	18:70.8	19:29.0					9661	34	14:12.2	4:51.8	9733	24	9:65.7	8:72.0
13478	8.561	9441	21	18:04.9	14:69.4	9513	13	21:21.0	19:27.9					9662	26	15:45.2	4:12.2	9734	14	10:21.0	8:55.2
13478	8.561	9442	14	18:92.4	14:44.6	9514	12	0:01.2	20:20.0					9663	32	22:82.5	4:32.0	9735	16	14:28.0	8:19.3
13478	8.561	9443	21	22:65.2	14:32.3	9515*	61	4:61.1	20:26.0					9664	18	23:49.0	4:57.2	9736	27	16:92.4	8:46.2
13478	8.561	9444	15	25:97.0	14:00.0	9516	13	4:69.4	20:73.5					9665	17	23:92.2	4:82.6	9737	20	16:97.2	8:87.0
13478	8.561	9445*	40	0:41.2	15:86.6	9517	12	4:96.4	20:17.4					9666	17	24:09.8	4:82.8	9738	33	18:06.6	8:34.2
13478	8.561	9446	17	1:82.0	15:27.4	9518	12	10:70.8	20:46.6					9667	27	24:97.7	4:80.0	9739	29	18:49.6	8:01.0
13478	8.561	9447	12	2:53.0	15:39.7	9519	20	15:52.2	20:38.0					9668	9	0:64.0	5:10.3	9740	27	18:66.6	8:13.0
13478	8.561	9448	14	3:51.3	15:58.0	9520	22	16:48.4	20:48.4					9669	16	0:79.0	5:86.0	9741	22	18:88.0	8:11.0
13478	8.561	9449	10	4:55.6	15:39.2	9521	10	16:61.4	20:15.0					9670	40	1:80.0	5:03.0	9742	10	19:47.1	8:66.7
13478	8.561	9450	10	5:95.0	15:88.2	9522	12	20:59.6	20:19.2					9671*	72	3:86.0	5:08.2	9743	30	21:01.8	8:58.1
13478	8.561	9451	17	6:27.0	15:79.0	9523	44	21:41.0	20:50.0					9672	12	6:34.6	5:99.2	9744	23	25:08.5	8:08.0
13478	8.561	9452	18	12:25.7	15:25.0	9524	23	21:98.1	20:69.6					9673	14	7:32.0	5:12.4	9745	19	0:13.0	9:25.4
13478	8.561	9453	16	14:50.8	15:96.4	9525	23	1:43.8	21:29.0					9674	15	7:90.3	5:40.2	9746	30	1:44.2	9:47.6
13478	8.561	9454	14	15:48.4	15:81.4	9526	13	11:52.4	21:21.4					9675	38	8:05.0	5:21.8	9747	31	2:22.0	9:37.7
13478	8.561	9455	10	17:64.0	15:71.2	9527	19	11:73.0	21:47.4					9676	26	9:29.7	5:55.0	9748	12	3:01.6	9:01.0
13478	8.561	9456	19	17:83.3	15:33.3	9528*	51	14:62.6	21:57.7					9677	11	13:18.4	5:83.2	9749	26	4:13.0	9:12.0
13478	8.561	9457*	43	17:84.3	15:23.6	9529	14	15:14.0	21:38.6					9678	16	13:44.2	5:09.7	9750	21	5:17.8	9:59.6
13478	8.561	9458	12	20:06.6	15:70.3	9530	30	17:06.0	21:07.4					9679	27	14:80.0	5:20.8	9751	14	5:25.4	9:86.0
13478	8.561	9459	18	20:18.8	15:69.7	9531	13	18:97.5	21:03.5					9680	28	17:35.5	5:34.0	9752	18	5:07.1	9:36.6
13478	8.561	9460	12	20:50.8	15:03.0	9532	26	22:26.8	21:37.3					9681	22	17:47.5	5:32.8	9753	18	7:21.9	9:17.5
13478	8.561	9461*	42	20:59.6	15:15.0	9533	12	24:88.0	21:44.0					9682	19	17:86.6	5:79.2	9754	14	9:66.2	9:52.6
13478	8.561	9462	31	21:05.0	15:09.1	9534	18	25:31.2	21:16.4					9683	20	19:18.2	5:45.7	9755	12	11:31.1	9:33.6
13478	8.561	9463	31	21:89.5	15:42.0	9535	13	1:99.4	22:11.6					9684	42	20:92.8	5:39.8	9756	18	11:65.6	9:46.4
13478	8.561	9464	13	24:45.0	15:62.6	9536	12	4:60.6	22:32.8					9685	19	23:12.6	5:00.1	9757	39	11:72.3	9:36.0
13478	8.561	9465	14	1:47.9	16:17.0	9537	27	5:76.6	22:41.6					9686	18	23:80.2	5:08.2	9758	16	12:05.8	9:36.5
13478	8.561	9466	20	2:03.1	16:35.1	9538	55	9:19.4	22:16.4					9687	26	24:21.5	5:16.8	9759	17	17:42.2	9:65.8
13478	8.561	9467	20	2:77.6	16:37.0	9539	21	9:97.0	22:69.4					9688*	48	4:67.2	6:99.0	9760	32	18:09.2	9:17.4
13478	8.561	9468	32	5:88.3	16:30.2	9540	18	12:24.4	22:04.2					9689	19	9:18.5	6:17.3	9761	31	19:72.0	9:70.8
13478	8.561	9469	10	6:55.3	16:03.4	9541	16	13:44.0	22:68.5					9690	27	14:56.8	6:76.0	9762	10	19:80.4	9:39.0
13478	8.561	9470	13	8:29.0	16:21.2	9542	14	14:20.8	22:81												



10106	21	5.493	4.831	10178	25	21.085	8.172	10250	37	9.275	12.448	10322	19	11.172	15.881	10394	14	25.910	18.487
10107	19	5.676	4.522	10179	14	22.046	8.560	10251	31	11.956	12.828	10323	16	11.339	15.617	10395	18	1.080	19.002
10108	11	8.918	4.663	10180	26	24.556	8.200	10252	23	12.161	12.022	10324	28	11.756	15.664	10396	36	1.376	19.094
10109	14	8.956	4.556	10181	11	25.241	8.294	10253	16	12.722	12.318	10325	12	14.757	15.722	10397	11	1.078	19.770
10110	30	9.580	4.974	10182	22	25.352	8.479	10254	14	12.767	12.669	10326	24	15.640	15.422	10398	56	3.530	19.990
10111	54	10.929	4.364	10183	15	3.002	9.489	10255	12	13.031	12.956	10327	16	15.902	15.636	10399	12	4.296	19.062
10112	28	14.830	4.780	10184	22	4.862	9.770	10256	11	14.813	12.178	10328	10	16.440	15.252	10400	20	4.330	19.096
10113	17	16.900	4.722	10185	80	6.782	9.800	10257	32	15.092	12.560	10329	22	16.722	15.255	10401	11	4.912	19.758
10114	12	17.467	4.849	10186	42	6.970	9.743	10258	17	15.688	12.658	10330	19	17.276	15.839	10402	28	5.193	19.376
10115	22	17.520	4.024	10187	39	7.572	9.909	10259	23	15.887	12.519	10331	22	19.328	15.990	10403	32	5.358	19.206
10116	19	20.324	4.486	10188	41	8.600	9.204	10260	13	18.214	12.069	10332	20	20.660	15.076	10404	19	6.534	19.090
10117	18	22.702	4.578	10189	41	9.222	9.546	10261	20	19.962	12.422	10333	23	20.720	15.940	10405	18	7.229	19.771
10118	127	24.204	4.673	10190	20	12.938	9.950	10262	17	21.346	12.126	10334	24	20.810	15.171	10406	12	9.335	19.660
10119	23	1.824	5.400	10191	21	13.351	9.406	10263	33	22.475	12.672	10335	10	23.440	15.910	10407	15	9.788	19.467
10120	20	2.502	5.470	10192	14	15.754	9.796	10264	19	23.015	12.314	10336	21	23.558	15.018	10408	21	10.910	19.042
10121	24	2.617	5.212	10193	20	15.862	9.336	10265	21	25.794	12.001	10337	26	2.402	16.202	10409	20	11.604	19.466
10122	23	2.790	5.208	10194	22	16.326	9.726	10266	18	25.902	12.764	10338	38	2.578	16.712	10410	22	13.312	19.112
10123	28	2.914	5.546	10195	11	17.110	9.009	10267	17	0.356	13.236	10339	22	4.732	16.978	10411	25	15.486	19.438
10124	32	3.671	5.160	10196	27	18.388	9.940	10268	14	1.786	13.108	10340	30	8.377	16.562	10412	27	16.122	19.471
10125	20	4.860	5.670	10197	37	18.592	9.128	10269	37	4.010	13.744	10341	39	10.433	16.121	10413	16	16.784	19.664
10126	36	6.026	5.769	10198	32	19.617	9.930	10270	14	4.295	13.118	10342	23	12.395	16.261	10414	35	19.731	19.021
10127	24	7.652	5.866	10199	16	22.208	9.180	10271	12	5.243	13.905	10343	57	14.544	16.995	10415	21	20.503	19.446
10128	32	11.538	5.012	10200	33	23.001	9.909	10272	32	6.612	13.636	10344	26	15.762	16.504	10416	22	24.543	19.442
10129	24	12.058	5.376	10201	25	23.014	9.844	10273	22	7.628	13.429	10345	20	16.422	16.131	10417	27	24.543	19.530
10130	35	14.438	5.320	10202	18	23.503	9.973	10274	11	8.311	13.078	10346	21	16.640	16.742	10418	19	1.260	20.109
10131	22	14.556	5.194	10203	24	25.055	9.534	10275	17	11.304	13.791	10347	26	18.281	16.691	10419	22	1.379	20.812
10132	48	14.575	5.084	10204	27	25.800	9.596	10276	32	12.936	13.055	10348	29	19.344	16.788	10420	28	3.773	20.590
10133	25	15.360	5.894	10205	50	25.806	9.902	10277	21	13.336	13.156	10349	20	19.482	16.842	10421	17	7.181	20.760
10134	35	16.684	5.532	10206	33	0.485	10.085	10278	17	15.490	13.628	10350	42	19.740	16.209	10422	19	7.453	20.200
10135	10	20.219	5.906	10207	26	2.403	10.492	10279	17	16.785	13.756	10351	30	20.310	16.598	10423	43	7.700	20.386
10136	13	21.100	5.667	10208	13	3.000	10.522	10280	32	19.812	13.329	10352	20	21.218	16.896	10424	15	8.172	20.298
10137	22	21.173	5.402	10209	38	3.395	10.390	10281	30	19.741	13.232	10353	23	21.879	16.612	10425	36	8.268	20.034
10138	11	24.740	5.662	10210	12	6.913	10.399	10282	60	20.382	13.502	10354	47	22.048	16.618	10426	23	9.448	20.184
10139	40	2.274	6.724	10211	12	7.120	10.400	10283	14	20.838	13.196	10355	20	22.194	16.238	10427	11	10.108	20.510
10140	10	2.854	6.180	10212	19	7.190	10.006	10284	18	22.569	13.488	10356	42	24.248	16.876	10428	19	13.697	20.342
10141	26	2.920	6.771	10213	22	7.236	10.405	10285	12	24.604	13.572	10357	22	25.220	16.352	10429	19	14.144	20.793
10142	30	4.612	6.574	10214	18	8.456	10.846	10286	20	0.860	14.705	10358	10	25.642	16.942	10430	23	14.680	20.508
10143	15	4.875	6.950	10215	23	8.722	10.923	10287	25	2.320	14.730	10359	10	25.678	16.550	10431	15	14.732	20.298
10144	22	6.214	6.992	10216	17	11.596	10.720	10288	14	2.406	14.145	10360	22	4.632	17.280	10432	24	16.564	20.536
10145	22	6.551	6.224	10217	11	14.849	10.394	10289	20	3.550	14.172	10361	40	5.860	17.744	10433	20	17.032	20.026
10146	28	11.732	6.640	10218	19	14.883	10.916	10290	27	3.604	14.184	10362	24	7.323	17.008	10434	57	22.572	20.070
10147	10	12.023	6.150	10219	18	15.736	10.472	10291	25	4.110	14.301	10363	16	9.367	17.166	10435	38	22.920	20.116
10148	19	14.571	6.276	10220	20	15.948	10.598	10292	49	5.229	14.268	10364	24	10.458	17.730	10436	39	23.286	20.306
10149	24	17.014	6.694	10221	39	19.292	10.733	10293	19	6.248	14.161	10365	17	12.382	17.524	10437	29	24.635	20.392
10150	42	19.698	6.544	10222	14	16.858	10.873	10294	17	8.080	14.442	10366	26	14.932	17.753	10438	13	0.020	21.242
10151	11	19.786	6.670	10223	26	20.612	10.360	10295	18	10.196	14.380	10367	22	15.144	17.204	10439	22	1.094	21.990
10152	26	20.609	6.980	10224	32	21.870	10.740	10296	17	10.200	14.908	10368	36	16.858	17.210	10440	17	2.734	21.852
10153	19	23.720	6.794	10225	19	22.780	10.088	10297	19	10.918	14.590	10369	20	17.220	17.660	10441	21	3.072	21.782
10154	28	1.158	7.826	10226	22	23.000	10.600	10298	15	11.372	14.162	10370	40	17.584	17.470	10442	14	5.585	21.464
10155	19	2.594	7.202	10227	28	3.718	11.100	10299	43	11.454	14.280	10371	10	17.767	17.729	10443	42	6.135	21.150
10156	19	4.152	7.700	10228	15	4.068	11.481	10300	22	11.744	14.149	10372	28	20.412	17.686	10444	38	6.148	21.872
10157	29	10.782	7.250	10229	19	6.212	11.582	10301	11	11.760	14.760	10373	23	20.438	17.163	10445	21	6.465	21.468
10158	13	13.101	7.307	10230	19	6.432	11.491	10302	10	14.363	14.266	10374	15	20.570	17.479	10446	11	8.197	21.093
10159	21	13.254	7.978	10231	22	6.615	11.614	10303	39	15.437	14.778	10375	22	21.683	17.682	10447	14	10.782	21.070
10160	22	15.338	7.718	10232	40	7.852	11.682	10304	22	16.118	14.028	10376	52	24.488	17.029	10448	16	11.070	21.350
10161	33	19.820	7.072	10233	26	8.878	11.716	10305	24	17.424	14.272	10377	27	0.806	18.892	10449	16	11.228	21.840
10162	20	20.237	7.878	10234	16	10.070	11.523	10306	22	17.794	14.418	10378	25	3.548	18.250	10450	24	12.314	21.948
10163	19	25.323	7.918	10235	32	14.048	11.206	10307	20	18.296	14.669	10379	19	3.644	18.014	10451	14	14.090	21.596
10164	26	1.172	8.394	10236	66	18.442	11.653	10308	34	19.647	14.787	10380	21	4.660	18.782	10452	12	16.156	21.968
10165	18	2.258	8.117	10237	19	19.026	11.558	10309	18	19.912	14.260	10381	29	6.548	18.972	10453	28	17.618	21.515
10166	21	3.842	8.441	10238	10	19.188	11.448	10310	11	20.838	14.334	10382	30	6.929	18.900	10454	27	18.706	21.452
10167	18	4.186	8.500	10239	28	20.040	11.124	10311	13	21.396	14.028	10383	39	8.666	18.858	10455	17	19.226	21.360
10168	11	7.214	8.666																



10466	25	11-618	22-970	R.A. 5 <sup>h</sup> 20 <sup>m</sup> Plate 1503; 1920 Jan. 11.  Provisional Constants.  A B C -01744 +00289 +0697  D E F -00293 -01753 -2258  Mag.=15.9-0.94√d	10606	10	22-360	2-628	10678	17	15-802	5-375	10750	14	8-215	8-244
10467	14	11-688	22-506		10607	20	22-970	2-786	10679	18	16-180	5-850	10751	23	9-480	8-415
10468	19	12-344	22-176		10608	13	24-115	2-056	10680	12	16-230	5-866	10752	12	9-632	8-002
10469	17	13-251	22-066		10609	14	2-666	3-322	10681	17	16-505	5-907	10753	12	10-154	8-170
10470	18	13-313	22-790	No. d a g y	10610	11	4-030	3-422	10682	14	17-149	5-674	10754	10	11-919	8-570
10471	10	16-791	22-444		10611	35	4-866	3-755	10683	12	17-230	5-245	10755	20	12-066	8-719
10472	31	17-354	22-596		10612	10	6-646	3-779	10684	14	18-478	5-542	10756	24	12-192	8-226
10473	35	18-728	22-724		10613	40	7-448	3-841	10685	10	18-582	5-274	10757	22	13-338	8-008
10474	24	20-601	22-362	10614 12 7-744 3-426 10686 13 19-434 5-918 10758 25 14-830 8-304	10614	12	7-744	3-426	10686	13	19-434	5-918	10758	25	14-830	8-304
10475	19	21-564	22-768		10615	18	8-773	3-242	10687	13	19-730	5-668	10759	10	15-014	8-057
10476	18	22-393	22-734		10616	22	8-218	3-643	10688	12	20-022	5-989	10760	12	15-055	8-571
10477	24	22-502	22-916		10617	11	9-860	3-447	10689	38	20-394	5-414	10761	19	15-210	8-071
10478	11	8-248	23-674	10618 11 11-874 3-835 10690 13 20-588 5-050 10762 12 15-482 8-294	10618	11	11-874	3-835	10690	13	20-588	5-050	10762	12	15-482	8-294
10479	20	10-021	23-398		10619	44	12-858	3-242	10691	14	21-586	5-531	10763	22	17-197	8-330
10480	10	10-328	23-434		10620	11	15-630	3-755	10692	15	19-010	6-920	10764	12	18-075	8-706
10481	18	13-877	23-381		10621	12	16-710	3-477	10693	38	5-286	6-220	10765	20	18-535	8-730
10482	20	14-236	23-541	10622 23 16-965 3-652 10694 16 5-310 6-120 10766 18 20-870 8-256	10622	23	16-965	3-652	10694	16	5-310	6-120	10766	18	20-870	8-256
10483	30	14-368	23-533		10623	13	20-398	3-956	10695	15	5-590	6-014	10767	22	21-218	8-160
10484	30	16-038	23-470		10624	19	21-746	3-630	10696	14	6-238	6-865	10768	12	21-572	8-300
10485	48	17-506	23-004		10625	14	23-525	3-713	10697	10	6-835	6-766	10769	21	22-460	8-300
10486	10	19-217	23-084	10626 36 23-891 3-052 10698 26 8-520 6-300 10770 16 22-474 8-369	10626	36	23-891	3-052	10698	26	8-520	6-300	10770	16	22-474	8-369
10487	26	19-726	23-008		10627	60	24-089	3-306	10699	11	8-950	6-000	10771	10	23-704	8-183
10488	18	20-900	23-418	10628 14 24-901 3-292 10700 12 12-124 6-403 10772 24 24-766 8-862	10628	14	24-901	3-292	10700	12	12-124	6-403	10772	24	24-766	8-862
10489	33	22-948	23-984		10629	10	25-806	3-948	10701	14	12-174	6-524	10773	17	25-491	8-628
10490	26	25-607	23-594		10630	16	25-968	3-927	10702	20	13-768	6-526	10774	12	26-018	8-320
10491	22	0-199	24-832		10631	15	0-875	4-710	10703	12	14-814	6-024	10775	20	1-226	9-975
10492	14	0-612	24-866	10632 140 2-360 4-796 10704 11 15-544 6-804 10776 10 1-639 9-718	10632	140	2-360	4-796	10704	11	15-544	6-804	10776	10	1-639	9-718
10493	32	3-374	24-639		10633	11	3-082	4-666	10705	24	15-729	6-563	10777	20	3-267	9-648
10494	10	3-622	24-620		10634	10	4-565	4-773	10706	12	15-730	6-042	10778	24	4-012	9-702
10495	23	3-908	24-380		10635	40	5-350	4-555	10707	29	19-088	6-134	10779	20	4-448	9-944
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Plate 1509; 1920 Jan. 12.

## Provisional Constants.

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14123	34	13°973	21°810	14195	16	22°969	23°566					14325	23	11°106	2°044	14397	34	25°502	4°388
14124	34	15°902	21°164	14196	28	24°188	23°088					14326	18	12°222	2°185	14398	10	25°502	4°388
14125	12	16°186	21°496	14197	27	24°786	23°176					14327	20	13°620	2°871	14399	36	25°502	4°388
14126	12	16°480	21°668	14198	37	0°002	24°615					14328	16	15°014	2°188	14400	44	25°502	4°388
14127	27	16°882	21°400	14199	26	0°557	24°602					14329	20	15°292	2°120	14401	29	25°502	4°388
14128	31	17°138	21°614	14200	12	8°746	24°751					14330	42	16°126	2°527	14402	11	25°502	4°388
14129	19	17°724	21°718	14201	17	9°223	24°625					14331	42	16°217	2°222	14403	31	25°502	4°388
14130	12	17°828	21°800	14202	26	9°751	24°850					14332	9	18°166	2°032	1440			

3246	14411	14	14760	5620	14483	21	5720	8440	14555	10	21418	10050	14627	15	2477	13866	14699	18	15501	15572
3248	14412	20	15743	5690	14484	16	6515	8544	14556	25	22228	10338	14628	13	3138	13482	14700	31	16074	15583
3249	14413	19	16055	5198	14485	15	6680	8610	14557	45	23127	10366	14629	18	4994	13580	14701	38	16490	15328
3251	14414	18	16116	5075	14486	11	7256	8164	14558	9	24239	10398	14630	29	5509	13736	14702	13	17798	15256
3252	14415	13	18307	5328	14487	19	9088	8812	14559	15	24360	10756	14631	54	5932	13654	14703	38	18081	15948
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3255	14418	33	19949	5622	14490	24	13732	8486	14562	44	2366	11774	14634	23	6313	13289	14706	9	22697	15439
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3257	14420	10	21328	5054	14492	15	15437	8811	14564	12	4031	11974	14636	14	7884	13635	14708	16	23140	15557
3258	14421	35	21950	5504	14493	15	16158	8854	14565	22	4128	11724	14637	10	8520	13520	14709	11	23420	15972
3259	14422	35	22048	5580	14494	18	17383	8081	14566	38	5720	11233	14638	17	8836	13772	14710	18	1433	16818
3260	14423	31	22428	5150	14495	9	17548	8042	14567	14	6936	11192	14639	45	8070	13200	14711	30	2218	16706
3261	14424	15	23947	5992	14496	9	19066	8673	14568	28	7988	11914	14640	12	9270	13068	14712	20	3334	16699
3262	14425	27	1030	6704	14497	12	20092	8058	14569	32	9672	11432	14641	16	10986	13143	14713	17	5590	16991
3263	14426	23	1127	6544	14498	22	20198	8508	14570	18	10340	11726	14642	12	11472	13847	14714	11	6046	16852
3264	14427	11	1512	6975	14499	17	20574	8708	14571	28	10340	11060	14643	35	11626	13337	14715	22	7404	16635
3265	14428	18	1762	6858	14500	12	21600	8476	14572	12	10566	11026	14644	22	11657	13954	14716	48	8328	16462
3266	14429	18	4846	6158	14501	15	22025	8314	14573	14	10984	11739	14645	38	12356	13994	14717	30	9636	16524
3267	14430	22	5672	6370	14502	17	22901	8444	14574	19	11665	11958	14646	13	13070	13592	14718	32	9773	16578
3268	14431	19	5892	6239	14503	11	25013	8792	14575	15	11665	11568	14647	26	13212	13110	14719	14	11104	16491
3269	14432	34	6200	6266	14504	19	25829	8872	14576	22	11670	11552	14648	27	14041	13132	14720	17	11236	16716
3270	14433	39	7038	6699	14505	10	0102	9822	14577	14	11678	11573	14649	20	14966	13320	14721	24	11661	16677
3271	14434	30	8407	6278	14506	21	0288	9270	14578	19	12052	11224	14650	35	15208	13670	14722	58	13756	16576
3272	14435	33	10278	6230	14507	10	1722	9408	14579	17	13770	11730	14651	34	15971	13690	14723	20	13994	16720
3273	14436	11	12620	6150	14508	41	3252	9260	14580	32	16346	11604	14652	13	16166	13471	14724	10	14880	16148
3274	14437	51	13573	6184	14509	22	3495	9058	14581	33	16414	11633	14653	28	16281	13422	14725	22	15474	16953
3275	14438	23	14285	6550	14510	44	4096	9144	14582	25	17194	11360	14654	31	16714	13561	14726	34	15728	16980
3276	14439	14	14550	6852	14511	39	5640	9302	14583	21	19776	11591	14655	30	17370	13558	14727	18	16152	16004
3277	14440	23	15574	7066	14512	18	7548	9218	14584	14	19940	11063	14656	13	22102	13596	14728	23	16400	16729
3278	14441	26	18127	6762	14513	16	7588	9398	14585	23	23548	11437	14657	17	22300	13507	14729	16	18502	16448
3279	14442	19	18580	6748	14514	38	8346	9430	14586	27	23692	11976	14658	15	25560	13357	14730	19	21050	16470
3280	14443	24	18884	6928	14515	17	9758	9207	14587	28	23780	11382	14659	18	0617	14588	14731	33	21288	16231
3281	14444	20	19728	6408	14516	12	9768	9714	14588	12	24820	11024	14660	24	4644	14350	14732	12	21526	16578
3282	14445	31	19824	6582	14517	24	11165	9788	14589	22	24902	11880	14661	22	5344	14434	14733	9	22518	16703
3283	14446	26	20871	6939	14518	15	11572	9480	14590	32	24947	11472	14662	34	6109	14761	14734	33	23440	16581
3284	14447	15	20886	6658	14519	11	11922	9362	14591	24	25412	11637	14663	32	6827	14906	14735	21	23996	16970
3285	14448	20	23074	6348	14520	12	12207	9606	14592	14	2044	12104	14664	15	9220	14600	14736	19	0700	17084
3286	14449	25	23243	6904	14521	39	14070	9146	14593	30	2668	12068	14665	10	9456	14500	14737	13	0897	17358
3287	14450	20	23333	6516	14522	19	14708	9493	14594	26	4262	12740	14666	29	10370	14119	14738	50	1247	17961
3288	14451	26	0577	7852	14523	35	15770	9352	14595	12	5465	12833	14667	31	10691	14016	14739	39	1338	17912
3289	14452	18	3322	7742	14524	10	16167	9212	14596	13	5550	12948	14668	10	11243	14102	14740	23	2876	17502
3290	14453	20	4404	7328	14525	17	16335	9202	14597	45	5864	12430	14669	24	11713	14836	14741	17	3488	17062
3291	14454	22	5312	7602	14526	37	17068	9659	14598	25	5867	12937	14670	16	12107	14468	14742	32	3735	17040
3292	14455	44	9767	7550	14527	17	17392	9200	14599	30	6816	12598	14671	32	12310	14842	14743	35	3968	17540
3293	14456	22	10229	7815	14528	30	17981	9179	14600	28	6862	12506	14672	19	13066	14772	14744	118	4008	17322
3294	14457	22	10964	7833	14529	32	19338	9652	14601	30	7650	12984	14673	9	13132	14760	14745	26	4508	17656
3295	14458	10	11922	7274	14530	21	20771	9224	14602	18	10492	12162	14674	21	13505	14632	14746	24	5552	17708
3296	14459	31	12048	7679	14531	22	20896	9486	14603	40	12405	12392	14675	19	13813	14626	14747	22	5989	17530
3297	14460	27	12955	7102	14532	22	24048	9899	14604	19	13562	12810	14676	29	14109	14530	14748	18	6085	17620
3298	14461	21	13254	7003	14533	25	1007	10272	14605	18	13824	12758	14677	11	14907	14887	14749	25	6253	17998
3299	14462	18	14303	7276	14534	12	1735	10808	14606	27	13982	12478	14678	21	15024	14368	14750	21	6651	17867
3300	14463	14	14598	7070	14535	13	2320	10813	14607	40	14444	12403	14679	32	16934	14862	14751	18	6815	17730
3301	14464	17	14949	7642	14536	16	2334	10315	14608	26	14939	12682	14680	12	17901	14550	14752	41	9901	17054
3302	14465	11	16359	7379	14537	26	5224	10029	14609	23	14945	12668	14681	16	19204	14442	14753	16	11177	17560
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3304	14467	11	17734	7532	14539	23	5388	10412	14611	36	15925	12416	14683	12	19652	14210	14755	30	12812	17020
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3306	14469	44	21595	7644	14541	25	6501	10714	14613	12	18071	12278	14685	37	21212	14764	14757	15	13517	17268
3307	14470	24	21816	7185	14542	13	7202	10907	14614	18	18994	12944	14686	12	21396	14825	14758	14	13788	17726
3308	14471	15	21858	7878	14543	46	8312	10417	14615	11	20064	12904	14687	21	21844	14232	14759	23	13934	17608
3309	14472	17	23630	7532	14544	20	9592	10848	14616	26	20294	12802	14688	30	22284	14298	14760	12	14350	17426
3310	14473	14	24278	7026	14545	43	10713	10090	14617											

14771	14	19°28'	17°36'	14843	38	18°632	20°364	14915	12	6°406	24°678	15011	12	11°552	0°460	15083	16	11°568	3°380
14772	22	23°000	17°568	14844	20	20°970	20°177	14916	12	6°724	24°515	15012	34	11°942	0°350	15084	40	12°348	3°856
14773	11	24°202	17°270	14845	18	21°828	20°494	14917	31	9°390	24°546	15013	11	12°352	0°800	15085	15	13°188	3°570
14774	35	24°602	17°938	14846	19	22°123	20°544	14918	32	12°738	24°186	15014	10	14°110	0°720	15086	46	15°185	3°664
14775	39	24°784	17°393	14847	36	22°643	20°802	14919	23	14°377	24°132	15015	11	15°166	0°682	15087	10	15°884	3°514
14776	40	25°999	17°086	14848	49	23°136	20°774	14920	15	15°218	24°717	15016	14	15°447	0°218	15088	21	15°884	3°514
14777	24	1°838	18°941	14849	32	24°206	20°505	14921	10	15°699	24°248	15017	21	15°484	0°803	15089	12	18°060	3°486
14778	39	3°400	18°227	14850	21	24°490	20°390	14922	42	15°862	24°659	15018	15	16°024	0°874	15090	11	20°816	3°524
14779	21	4°496	18°434	14851	40	1°928	21°671	14923	13	16°490	24°688	15019	14	18°294	0°218	15091	18	20°867	3°524
14780	28	5°452	18°110	14852	22	3°066	21°522	14924	46	16°685	24°260	15020	10	18°668	0°778	15092	14	21°169	3°627
14781	25	5°688	18°380	14853	12	4°960	21°410	14925	11	17°323	24°397	15021	10	19°328	0°116	15093	16	21°451	3°242
14782	20	5°944	18°870	14854	17	5°772	21°050	14926	16	17°432	24°798	15022	25	20°886	0°149	15094	14	22°034	3°934
14783	32	6°457	18°406	14855	100	6°352	21°392	14927	12	17°442	24°341	15023	11	22°559	0°477	15095	11	22°212	3°844
14784	26	7°291	18°412	14856	21	7°838	21°902	14928	21	19°056	24°309	15024	10	24°175	0°167	15096	16	22°755	3°094
14785	38	8°516	18°725	14857	12	7°968	21°571	14929	9	22°252	24°289	15025	17	1°915	1°685	15097	12	22°900	3°786
14786	11	10°728	18°568	14858	32	8°770	21°999	14930	14	24°339	24°852	15026	14	2°078	1°465	15098	28	24°526	3°590
14787	29	10°868	18°168	14859	19	9°380	21°245	14931	41	25°688	24°925	15027	19	2°534	1°278	15099	16	24°578	3°506
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14790	21	14°946	18°300	14862	19	10°626	21°602	14934	11	2°774	25°124	15030	34	5°630	1°785	15102	12	4°098	4°114
14791	14	15°960	18°960	14863	49	11°775	21°608	14935	37	3°144	25°442	15031	33	5°829	1°658	15103	20	4°400	4°688
14792	44	16°154	18°520	14864	16	12°020	21°618	14936	21	4°901	25°310	15032	22	5°859	1°905	15104	31	7°170	4°977
14793	14	18°405	18°228	14865	18	12°702	21°280	14937	25	5°147	25°698	15033	13	8°048	1°070	15105	11	7°360	4°548
14794	18	20°902	18°940	14866	14	13°482	21°680	14938	14	7°303	25°640	15034	52	8°647	1°410	15106	37	7°432	4°094
14795	22	20°994	18°912	14867	30	15°370	21°650	14939	12	12°449	25°868	15035	10	9°768	1°392	15107	17	8°792	4°210
14796	11	21°280	18°994	14868	28	15°432	21°622	14940	15	13°260	25°360	15036	12	9°774	1°009	15108	23	9°912	4°941
14797	24	24°000	18°360	14869	30	15°638	21°578	14941	41	14°034	25°460	15037	11	12°944	1°377	15109	12	10°804	4°274
14798	39	1°672	19°246	14870	28	15°773	21°280	14942	24	16°784	25°891	15038	11	14°779	1°154	15110	12	12°136	4°274
14799	20	4°609	19°102	14871	43	16°515	21°288	14943	15	17°982	25°422	15039	11	15°233	1°356	15111	17	13°100	4°391
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14801	10	5°386	19°470	14873	14	18°868	21°200	14945	18	19°825	25°970	15041	22	16°245	1°299	15113	12	13°558	4°780
14802	17	5°419	19°552	14874	16	19°320	21°820	14946	43	21°124	25°056	15042	10	16°618	1°299	15114	20	15°570	4°114
14803	12	5°444	19°948	14875	14	19°934	21°712	14947	12	21°384	25°270	15043	12	16°768	1°789	15115	10	16°260	4°352
14804	21	7°345	19°638	14876	14	21°271	21°962	14948	21	22°852	25°280	15044	16	17°495	1°560	15116	16	16°844	4°321
14805	25	8°073	19°240	14877	27	21°774	21°482	14949	60	23°340	25°612	15045	36	18°845	1°357	15117	25	19°258	4°564
14806	14	8°492	19°661	14878	33	23°170	21°176	14950	22	23°380	25°726	15046	38	19°612	1°011	15118	11	19°389	4°994
14807	13	8°943	19°642	14879	23	23°834	22°256	14951	14	23°614	25°862	15047	11	19°948	1°229	15119	12	20°904	4°110
14808	17	10°079	19°742	14880	12	4°882	22°759	14952	29	25°952	25°586	15048	19	19°992	1°695	15120	22	20°995	4°952
14809	21	10°291	19°726	14881	16	5°226	22°016	15049	32	21°114	25°083	15049	32	21°114	1°083	15121	20	21°764	4°137
14810	24	11°652	19°972	14882	10	5°958	22°174	15050	11	24°904	25°128	15050	11	24°904	1°248	15122	30	21°834	4°615
14811	12	12°506	19°242	14883	23	7°035	22°902	15051	40	25°033	25°033	15051	40	25°033	25°033	15123	23	24°773	4°794
14812	33	12°589	19°509	14884	13	10°126	22°565	15052	38	0°950	25°102	15052	38	0°950	25°102	15124	28	0°011	5°643
14813	36	13°275	19°776	14885	32	10°566	22°312	15053	13	1°236	25°766	15053	13	1°236	25°766	15125	25	0°384	5°208
14814	11	13°381	19°739	14886	17	10°822	22°218	15054	17	2°210	25°410	15054	17	2°210	25°410	15126	11	3°784	5°096
14815	29	14°136	19°493	14887	50	11°442	22°722	15055	40	3°819	25°194	15055	40	3°819	25°194	15127	20	4°553	5°879
14816	26	14°280	19°883	14888	12	12°624	22°168	15056	11	5°117	25°813	15056	11	5°117	25°813	15128	20	6°177	5°564
14817	35	15°266	19°346	14889	16	12°640	22°288	15057	26	6°250	25°773	15057	26	6°250	25°773	15129	15	6°793	5°026
14818	31	15°268	19°808	14890	12	14°283	22°008	15058	12	6°937	25°014	15058	12	6°937	25°014	15130	15	11°602	5°337
14819	20	15°867	19°065	14891	17	15°383	22°612	15059	20	7°559	25°950	15059	20	7°559	25°950	15131	27	12°428	5°480
14820	18	17°460	19°922	14892	30	16°242	22°988	15060	13	8°224	25°858	15060	13	8°224	25°858	15132	32	12°686	5°210
14821	23	19°947	19°802	14893	37	17°043	22°493	15061	19	8°286	25°364	15061	19	8°286	25°364	15133	26	14°888	5°586
14822	26	20°158	19°180	14894	45	18°669	22°508	15062	12	8°580	25°102	15062	12	8°580	25°102	15134	32	15°027	5°980
14823	19	20°448	19°256	14895	10	19°366	22°383	15063	32	10°022	25°624	15063	32	10°022	25°624	15135	20	15°170	5°075
14824	18	20°638	19°349	14896	12	23°328	22°268	15064	13	15°444	25°810	15064	13	15°444	25°810	15136	12	15°302	5°724
14825	17	21°423	19°802	14897	17	25°550	22°162	15065	11	16°346	25°276	15065	11	16°346	25°276	15137	10	18°134	5°634
14826	29	24°626	19°152	14898	12	1°024	23°822	15066	12	17°745	25°512	15066	12	17°745	25°512	15138	12	18°883	5°863
14827	37	0°215	20°954	14899	25	2°244	23°340	15067	19	18°010	25°135	15067	19	18°010	25°135	15139	40	19°121	5°947
14828	24	3°056	20°786	14900	24	2°841	23°428	15068	14	19°560	25°970	15068	14	19°560	25°970	15140	12	19°346	5°296
14829	13	7°376	20°438	14901	27	5°934	23°906	15069	25	19°950	25°646	15069	25	19°950	25°646	15141	18	20°878	5°743
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15157	26	12-756	6-135	15229	14	24-910	8-934	15301	14	25-475	11-054	15373	14	13-264	14-394	15445	10	3-640	16-732
15158	18	13-642	6-785	15230	11	25-369	8-505	15302	20	25-500	11-924	15374	26	13-384	14-313	15446	75	4-335	16-363
15159	12	13-680	6-963	15231	15	2-054	9-942	15303	56	25-886	11-190	15375	19	13-686	14-197	15447	10	6-618	16-552
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15163	12	20-520	6-698	15235	16	8-438	9-887	15307	14	4-788	12-985	15379	16	16-729	14-828	15451	25	7-870	16-406
15164	20	20-726	6-404	15236	12	9-100	9-429	15308	12	5-175	12-414	15380	18	17-552	14-806	15452	14	9-661	16-711
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15166	12	23-916	6-080	15238	12	11-054	9-782	15310	15	9-722	12-506	15382	49	18-368	14-660	15454	16	10-528	16-680
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15168	12	1-614	7-579	15240	24	17-825	9-113	15312	18	13-004	12-780	15384	12	18-695	14-937	15456	15	13-638	16-792
15169	11	2-855	7-066	15241	12	17-908	9-865	15313	15	14-860	12-890	15385	10	18-902	14-968	15457	13	14-241	16-079
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15171	19	4-204	7-976	15243	12	19-248	9-556	15315	24	15-402	12-808	15387	42	19-250	14-968	15459	20	16-033	16-850
15172	12	4-980	7-578	15244	12	21-454	9-185	15316	15	16-478	12-404	15388	15	20-659	14-855	15460	13	16-741	16-579
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15174	14	5-069	7-903	15246	20	22-532	9-597	15318	20	16-924	12-555	15390	40	21-040	14-839	15462	15	19-372	16-324
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15176	22	5-895	7-614	15248	14	23-387	9-646	15320	16	20-342	12-389	15392	18	21-226	14-354	15464	15	19-372	16-324
15177	24	6-460	7-897	15249	11	24-132	9-069	15321	20	21-786	12-135	15393	15	21-430	14-880	15465	10	19-600	16-185
15178	15	7-789	7-738	15250	11	25-716	9-760	15322	15	22-616	12-206	15394	22	22-498	14-522	15466	22	20-199	16-837
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15180	17	9-600	7-236	15252	45	1-131	10-417	15324	12	23-830	12-577	15396	16	23-698	14-824	15468	13	22-111	16-910
15181	19	10-650	7-565	15253	11	2-376	10-794	15325	10	24-281	12-912	15397	16	24-055	14-276	15469	14	23-144	16-150
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15183	40	11-614	7-719	15255	11	4-140	10-315	15327	15	3-601	13-382	15399	28	24-178	14-061	15471	22	25-244	16-592
15184	20	13-650	7-215	15256	18	7-220	10-714	15328	12	4-138	13-810	15400	20	0-300	15-712	15472	25	25-668	16-944
15185	19	14-400	7-874	15257	15	7-254	10-052	15329	12	4-870	13-280	15401	10	0-870	15-062	15473	17	1-086	17-617
15186	22	16-162	7-878	15258	15	7-570	10-252	15330	14	5-218	13-378	15402	13	1-206	15-608	15474	16	2-077	17-012
15187	16	16-989	7-895	15259	29	8-364	10-440	15331	12	5-485	13-791	15403	14	4-546	15-230	15475	11	2-286	17-312
15188	12	17-380	7-110	15260	12	9-700	10-940	15332	16	5-646	13-672	15404	14	4-850	15-510	15476	28	2-690	17-973
15189	19	17-560	7-514	15261	12	10-560	10-891	15333	20	5-673	13-117	15405	15	6-364	15-765	15477	29	2-864	17-428
15190	30	17-746	7-140	15262	28	10-656	10-003	15334	13	6-802	13-646	15406	13	6-626	15-682	15478	10	3-278	17-786
15191	26	18-020	7-330	15263	11	10-980	10-962	15335	13	6-968	13-992	15407	12	6-683	15-025	15479	40	4-074	17-108
15192	12	18-266	7-877	15264	22	11-291	10-564	15336	14	7-026	13-126	15408	11	6-972	15-076	15480	11	4-346	17-340
15193	17	19-452	7-876	15265	13	12-007	10-700	15337	12	8-502	13-791	15409	11	7-211	15-966	15481	26	7-200	17-323
15194	30	19-545	7-064	15266	12	13-742	10-915	15338	15	10-622	13-987	15410	11	7-287	15-511	15482	14	7-425	17-940
15195	24	20-907	7-376	15267	36	14-674	10-882	15339	62	11-124	13-049	15411	22	7-465	15-484	15483	12	7-852	17-410
15196	17	21-690	7-874	15268	19	14-674	10-648	15340	22	11-900	13-261	15412	17	10-139	15-960	15484	10	7-922	17-850
15197	25	21-800	7-285	15269	11	14-971	10-918	15341	24	12-446	13-875	15413	52	10-655	15-928	15485	22	8-140	17-204
15198	31	22-516	7-540	15270	20	15-246	10-536	15342	11	13-468	13-853	15414	38	11-500	15-336	15486	14	9-889	17-080
15199	40	22-538	7-015	15271	11	17-721	10-854	15343	24	14-355	13-396	15415	15	11-558	15-768	15487	22	10-195	17-835
15200	14	24-618	7-030	15272	15	17-750	10-744	15344	16	15-958	13-135	15416	25	13-507	15-267	15488	19	10-241	17-782
15201	27	22-990	7-240	15273	11	17-851	10-030	15345	15	16-477	13-021	15417	48	15-260	15-803	15489	11	10-540	17-092
15202	11	0-014	8-376	15274	38	22-435	10-585	15346	34	16-830	13-902	15418	15	15-695	15-606	15490	14	11-313	17-515
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15204	19	3-824	8-895	15276	12	24-914	10-338	15348	10	21-155	13-740	15420	12	16-312	15-119	15492	20	12-774	17-060
15205	35	3-982	8-008	15277	20	1-570	11-482	15349	14	21-973	13-473	15421	19	16-530	15-439	15493	12	14-250	17-660
15206	28	4-535	8-588	15278	22	1-802	11-426	15350	40	22-666	13-612	15422	14	16-832	15-183	15494	14	15-959	17-553
15207	47	4-666	8-100	15279	12	2-837	11-059	15351	14	23-364	13-388	15423	11	17-220	15-068	15495	20	16-783	17-554
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15209	11	5-650	8-173	15281	22	2-966	11-503	15353	48	0-364	14-302	15425	12	17-674	15-188	15497	15	17-942	17-755
15210	27	7-462	8-302	15282	19	3-436	11-664	15354	26	0-989	14-350	15426	11	17-909	15-472	15498	11	18-124	17-280
15211	17	7-460	8-725	15283	22	5-068	11-005	15355	13	3-848	14-356	15427	14	19-044	15-831	15499	22	19-386	17-544
15212	25	9-050	8-892	15284	20	5-160	11-896	15356	10	4-694	14-900	15428	13	19-420	15-934	15500	14	19-445	17-790
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15215	22	9-871	8-225	15287	18	8-040	11-616	15359	24	8-755	14-760	15431	18	20-140	15-128	15503	22	20-550	17-013
15216	15	12-334	8-800	15288	40	8-672	11-532	15360	40	8-770	14-655	15432	15	20-766	15-117	15504	20	21-822	17-331
15217	14	13-795	8-810																

22.

15515	11	7-521	18-635	15587	12	22-630	20-120	15659	21	12-735	23-928	<div><div>R.A. 6<sup>h</sup> 24<sup>m</sup></div><div>Plate 1527 : 1920 Jan. 16.</div><div>Provisional Constants.</div><div><div>A</div><div>B</div><div>C</div><div>-01734 +01225 -11014</div><div>D</div><div>E</div><div>F</div><div>-01245 -01764 -2108</div><div>Mag. = 15-8 -0.94√d</div></div></div>												15806	12	1-672	2-442
15516	12	8-582	18-386	15588	10	23-534	20-680	15660	24	13-850	23-785	15807	14	7-220	2-754												
15517	22	10-444	18-176	15589	10	23-864	20-129	15661	12	10-539	23-666	15808	11	9-504	2-690												
15518	12	11-112	18-470	15590	16	24-955	20-985	15662	13	10-953	23-415	15809	42	9-772	2-637												
15519	26	12-076	18-717	15591	29	1-292	21-225	15663	24	17-206	23-129	<div><div>A</div><div>B</div><div>C</div><div>-01734 +01225 -11014</div><div>D</div><div>E</div><div>F</div><div>-01245 -01764 -2108</div><div>Mag. = 15-8 -0.94√d</div></div>												15810	32	11-884	2-770
15520	14	12-138	18-664	15592	30	4-146	21-600	15664	22	18-305	23-914	15811	43	11-972	2-676												
15521	16	12-300	18-748	15593	30	6-026	21-202	15665	20	20-228	23-300	15812	48	12-440	2-502												
15522	18	13-741	18-060	15594	13	6-802	21-068	15666	14	22-320	23-471	15813	14	12-740	2-403												
15523	20	14-810	18-583	15595	16	7-099	21-663	15667	10	22-667	23-110	<div><div>A</div><div>B</div><div>C</div><div>-01734 +01225 -11014</div><div>D</div><div>E</div><div>F</div><div>-01245 -01764 -2108</div><div>Mag. = 15-8 -0.94√d</div></div>												15814	13	13-817	2-986
15524	22	16-124	18-986	15596	32	8-016	21-634	15668	28	23-905	23-218	15815	42	14-868	2-216												
15525	10	17-213	18-797	15597	40	8-086	21-665	15669	12	2-504	24-889	15816	16	15-349	2-036												
15526	12	17-816	18-376	15598	25	8-115	21-882	15670	13	3-578	24-805	15817	22	15-986	2-450												
15527	25	18-398	18-028	15599	11	8-580	21-546	15671	45	3-847	24-950	<div><div>A</div><div>B</div><div>C</div><div>-01734 +01225 -11014</div><div>D</div><div>E</div><div>F</div><div>-01245 -01764 -2108</div><div>Mag. = 15-8 -0.94√d</div></div>												15818	12	16-178	2-234
15528	42	18-889	18-785	15600	40	9-050	21-948	15672	19	7-238	24-798	15819	13	16-234	2-510												
15529	21	19-140	18-930	15601	26	9-769	21-222	15673																			
15530	10	21-152	18-138	15602	25	9-772	21-673	15674																			
15531	24	21-416	18-050	15603	14	11-435	21-690	15675																			
15532	13	21-863	18-133	15604	22	11-940	21-740	15676																			
15533	10	22-746	18-614	15605	14	12-094	21-883	15677																			
15534	10	23-584	18-976	15606	40	13-146	21-886	15678																			
15535	16	23-969	18-780	15607	14	13-927	21-684	15679																			
15536	22	2-726	19-186	15608	12	13-942	21-350	15680																			
15537	28	5-461	19-418	15609	30	15-766	21-204	15681																			
15538	24	6-829	19-290	15610	10	15-952	21-785	15682																			
15539	20	7-531	19-720	15611	28	16-289	21-144	15683																			
15540	10	7-799	19-704	15612	14	17-486	21-455	15684																			
15541	16	9-386	19-939	15613	12	18-096	21-605	15685																			
15542	13	9-728	19-055	15614	14	18-186	21-149	15686																			
15543	15	10-694	19-409	15615	20	21-572	21-050	15687																			
15544	13	10-874	19-662	15616	10	23-440	21-821	15688																			
15545	40	11-569	19-788	15617	15	23-886	21-280	15689																			
15546	22	13-094	19-446	15618	15	24-118	21-884	15690																			
15547	20	13-970	19-160	15619	11	3-390	22-076	15691																			
15548	24	14-630	19-482	15620	16	3-685	22-188	15692																			
15549	25	14-722	19-034	15621	16	6-002	22-716	15693																			
15550	31	15-222	19-758	15622	18	6-033	22-860	15694																			
15551	11	18-822	19-316	15623	13	6-303	22-723	15695																			
15552	34	18-890	19-469	15624	11	6-504	22-550	15696																			
15553	10	19-133	19-772	15625	20	7-160	22-818	15697																			
15554	30	19-174	19-881	15626	21	7-706	22-256	15698																			
15555	10	20-948	19-340	15627	12	8-210	22-922	15699																			
15556	11	23-600	19-967	15628	12	9-684	22-451	15700																			
15557	11	23-622	19-478	15629	12	9-950	22-642	15701																			
15558	10	24-870	19-845	15630	12	11-248	22-516	15702																			
15559	10	24-906	19-795	15631	10	11-602	22-594	15703																			
15560	12	0-240	20-604	15632	30	11-614	22-505	15704																			
15561	26	0-761	20-856	15633	20	11-926	22-806	15705																			
15562	44	1-247	20-825	15634	28	12-848	22-726	15706																			
15563	32	3-232	20-544	15635	30	15-850	22-520	15707																			
15564	19	2-604	20-426	15636	20	15-884	22-494	15708																			
15565	11	3-230	20-070	15637	16	17-640	22-790	15709																			
15566	80	4-184	20-324	15638	43	17-880	22-878	15710																			
15567	28	4-217	20-200	15639	10	18-154	22-920	15711																			
15568	10	5-206	20-090	15640	10	18-344	22-804	15712																			
15569	14	7-812	20-806	15641	38	18-572	22-254	15713																			
15570	12	8-514	20-531	15642	13	18-600	22-906	15714																			
15571	26	9-398	20-940	15643	22	19-507	22-305	15715																			
15572	17	10-794	20-893	15644	14	19-746	22-650	15716																			
15573	10	10-903	20-900	15645	12	20-162	22-550	15717																			
15574	18	11-735	20-324	15646	12	20-789	22-859																				
15575	13	12-264	20-022	15647	13	21-298	22-326																				
15576	13	12-742	20-880	15648	20	24-180	22-328																				
15577	25	13-924	20-190	15649	10	2-616	23-986																				
15578	14	14-294	20-988	15650	14	2-664	23-051																				
15579	12	14-389	20-644	15651	14	7-615	23-040																				
15580	20	15-199	20-948	15652	10	8-116	23-046																				
15581	22	16-095	20-305	15653	31	8-329	23-791																				
15582	14	16-454	20-782	15654	38	8-714	23-832																				
15583	33	16-850	20-404	15655	19	9-336	23-448																				
15584	22	17-542	20-346	15656	14	9-580	23-380																				
15585	16	22-102	20-747	15657	42	10-945	23-925																				
15586	15	22-555	20-186	15658	17	11-264	23-314																				

15878	42	19°922	4°750	15950	25	12°300	7°752	16022	26	13°939	9°835	16094	39	17°640	11°900	16166	17	16°385	13°258
15879	37	20°108	4°910	15951	13	13°136	7°493	16023	27	13°954	9°602	16095	13	18°314	11°012	16167	33	16°812	13°690
15880	14	20°600	4°258	15952	19	13°774	7°106	16024	28	14°075	9°484	16096	25	18°356	11°633	16168	20	19°701	13°800
15881	16	20°979	4°187	15953	19	13°840	7°820	16025	21	15°825	9°887	16097	15	18°416	11°430	16169	41	20°244	13°997
15882	87	21°610	4°480	15954	14	14°788	7°730	16026	13	16°884	9°024	16098	23	18°450	11°782	16170	24	20°581	13°733
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15884	22	24°680	4°332	15956	14	15°490	7°296	16028	28	18°006	9°667	16100	27	20°661	11°464	16172	17	21°692	13°498
15885	16	24°768	4°344	15957	29	17°483	7°478	16029	26	19°940	9°315	16101	17	20°830	11°004	16173	17	22°316	13°368
15886	11	25°896	4°398	15958	21	20°215	7°710	16030	33	20°032	9°302	16102	17	20°880	11°400	16174	13	22°536	13°380
15887	18	0°051	5°520	15959	27	20°296	7°686	16031	33	20°343	9°012	16103	68	21°692	11°932	16175	36	22°810	13°536
15888	17	1°569	5°421	15960	30	20°490	7°168	16032	16	21°314	9°331	16104	16	24°026	11°170	16176	41	22°903	13°227
15889	15	2°026	5°434	15961	12	20°540	7°740	16033	12	23°661	9°092	16105	20	24°418	11°552	16177	20	23°077	13°303
15890	45	2°563	5°762	15962	19	20°800	7°666	16034	19	23°901	9°670	16106	27	24°753	11°310	16178	24	24°350	13°700
15891	31	2°862	5°033	15963	20	20°900	7°590	16035	35	23°950	9°724	16107	19	24°950	11°230	16179	11	25°020	13°676
15892	19	4°520	5°816	15964	18	23°626	7°110	16036	44	0°638	10°874	16108	25	0°027	12°438	16180	15	25°030	13°630
15893	42	4°937	5°816	15965	18	3°536	8°730	16037	21	0°769	10°100	16109	23	0°860	12°490	16181	41	25°568	13°194
15894	13	5°494	5°280	15966	16	5°564	8°320	16038	11	1°450	10°042	16110	44	1°158	12°490	16182	17	25°752	13°226
15895	51	6°035	5°541	15967	11	6°678	8°816	16039	18	3°120	10°573	16111	40	1°525	12°159	16183	26	0°788	14°860
15896	21	7°024	5°340	15968	18	6°852	8°561	16040	13	6°680	10°838	16112	23	2°216	12°186	16184	19	1°140	14°450
15897	15	7°670	5°772	15969	22	7°300	8°856	16041	33	7°342	10°232	16113	17	3°192	12°210	16185	24	2°340	14°530
15898	16	8°990	5°440	15970	19	7°424	8°210	16042	35	7°616	10°662	16114	28	3°735	12°147	16186	32	2°457	14°312
15899	44	10°420	5°540	15971	13	7°436	8°100	16043	18	8°594	10°996	16115	37	4°750	12°472	16187	26	2°462	14°945
15900	42	11°820	5°185	15972	16	8°138	8°630	16044	44	8°912	10°830	16116	10	4°810	12°578	16188	16	2°772	14°901
15901	27	12°220	5°044	15973	10	8°502	8°452	16045	37	9°736	10°900	16117	13	5°197	12°833	16189	20	5°750	14°520
15902	27	12°687	5°968	15974	23	8°691	8°010	16046	12	12°733	10°277	16118	25	7°185	12°833	16190	25	6°614	14°579
15903	30	13°228	5°901	15975	16	8°930	8°862	16047	17	12°917	10°002	16119	20	7°260	12°100	16191	16	7°418	14°835
15904	25	13°490	5°992	15976	19	9°565	8°080	16048	18	13°134	10°150	16120	13	8°668	12°594	16192	38	8°386	14°004
15905	40	14°534	5°412	15977	14	9°948	8°166	16049	24	13°274	10°148	16121	13	8°680	12°130	16193	15	8°461	14°472
15906	25	14°795	5°738	15978	15	10°103	8°648	16050	13	13°990	10°875	16122	15	9°240	12°110	16194	16	8°837	14°671
15907	15	15°350	5°844	15979	13	10°734	8°800	16051	16	14°440	10°670	16123	16	11°534	12°240	16195	34	8°950	14°250
15908	52	17°434	5°844	15980	12	13°640	8°318	16052	12	16°005	10°670	16124	46	12°006	12°800	16196	15	9°496	14°516
15909	14	19°168	5°118	15981	28	13°840	8°149	16053	21	17°290	10°380	16125	21	13°779	12°614	16197	15	9°508	14°170
15910	40	19°410	5°817	15982	26	13°934	8°930	16054	14	17°610	10°602	16126	22	14°850	12°323	16198	14	9°760	14°154
15911	15	20°962	5°720	15983	14	14°280	8°772	16055	17	18°605	10°020	16127	10	15°150	12°990	16199	14	10°038	14°454
15912	15	24°470	5°449	15984	17	14°834	8°390	16056	14	19°536	10°846	16128	14	16°500	12°336	16200	16	13°670	14°452
15913	28	25°416	5°373	15985	26	14°947	8°652	16057	20	19°739	10°110	16129	15	17°029	12°314	16201	24	13°865	14°800
15914	16	2°034	6°336	15986	25	15°740	8°707	16058	19	19°856	10°238	16130	14	17°037	12°645	16202	15	15°667	14°920
15915	34	2°034	6°202	15987	28	16°315	8°072	16059	15	19°890	10°988	16131	28	17°330	12°180	16203	27	16°504	14°324
15916	11	3°550	6°235	15988	50	16°610	8°363	16060	17	20°170	10°517	16132	18	18°184	12°523	16204	16	17°940	14°850
15917	16	4°294	6°840	15989	29	16°860	8°870	16061	37	20°553	10°124	16133	17	18°687	12°978	16205	16	17°966	14°066
15918	61	6°600	6°429	15990	40	17°326	8°980	16062	14	20°881	10°160	16134	28	18°832	12°500	16206	24	18°000	14°406
15919	24	7°115	6°924	15991	17	17°510	8°286	16063	20	20°970	10°854	16135	14	19°248	12°260	16207	26	18°984	14°890
15920	76	9°713	6°458	15992	30	19°125	8°496	16064	15	21°204	10°858	16136	26	19°630	12°764	16208	28	19°142	14°076
15921	42	10°140	6°189	15993	14	19°497	8°940	16065	10	21°627	10°530	16137	25	19°756	12°656	16209	22	20°357	14°570
15922	22	10°214	6°464	15994	34	20°800	8°942	16066	12	23°382	10°760	16138	15	19°900	12°121	16210	27	20°579	14°534
15923	28	11°318	6°500	15995	20	22°686	8°748	16067	12	23°784	10°176	16139	16	20°398	12°810	16211	14	20°914	14°857
15924	20	12°433	6°918	15996	32	23°692	8°942	16068	19	24°394	10°900	16140	37	20°483	12°940	16212	19	21°514	14°150
15925	13	12°821	6°364	15997	18	23°742	8°560	16069	30	24°661	10°906	16141	33	20°860	12°580	16213	37	22°380	14°023
15926	17	13°787	6°430	15998	11	25°802	8°340	16070	25	25°723	10°046	16142	25	22°308	12°270	16214	19	23°393	14°882
15927	11	17°774	6°012	15999	27	0°582	9°866	16071	51	2°402	11°626	16143	27	24°110	12°386	16215	26	23°413	14°186
15928	15	19°470	6°442	16000	26	0°720	9°884	16072	31	2°880	11°062	16144	14	0°245	13°768	16216	24	23°572	14°702
15929	25	19°570	6°114	16001	17	1°580	9°914	16073	15	2°990	11°557	16145	50	0°934	13°894	16217	16	0°448	15°650
15930	40	20°419	6°369	16002	14	2°312	9°320	16074	22	3°694	11°276	16146	22	1°632	13°656	16218	14	1°548	15°480
15931	14	20°563	6°130	16003	17	3°084	9°170	16075	65	4°100	11°405	16147	16	2°540	13°161	16219	20	1°997	15°085
15932	16	21°200	6°600	16004	16	3°910	9°980	16076	22	4°738	11°100	16148	13	3°777	13°330	16220	20	2°207	15°785
15933	17	21°270	6°186	16005	33	4°616	9°278	16077	12	5°830	11°868	16149	25	4°466	13°130	16221	36	2°475	15°678
15934	15	21°646	6°772	16006	16	4°696	9°630	16078	17	6°280	11°890	16150	17	4°807	13°534	16222	20	2°955	15°946
15935	24	21°822	6°414	16007	17	5°334	9°194	16079	22	7°185	11°000	16151	19	7°230	13°114	16223	28	3°352	15°526
15936	10	23°062	6°698	16008	19	5°896	9°694	16080	14	8°410	11°986	16152	20	8°870	13°044	16224	28	4°217	15°410
15937	17	24°429	6°944	16009	14	7°024	9°580	16081	14	8°466	11°794	16153	16	8°770	13°582	16225	19	5°398	15°204
15938	11	24°518	6°304	16010	25	7°190	9°566	16082	29	8°578	11°712	16154	43	9°132	13°032	16226	13	5°451	15°242
15939	41	0°658	7°828	16011	27	7°237	9°112	16083	16	9°138	11°896	16155	18	10°532	13°679	16227	14	6°619	15°135
15940	53	0°669	7°301	16012	28	7°279	9°226	16084	34										



16238	16	13°13'	15°12'	16310	15	10°06'	17°24'	16382	14	15°854	19°408	16454	12	20°779	21°182	16526	26	21°690	24°426
16239	29	13°270	15°168	16311	21	10°184	17°558	16383	36	17°420	19°816	16455	15	20°854	21°150	16527	25	22°968	24°920
16240	26	15°027	15°310	16312	14	10°350	17°895	16384	45	17°704	19°959	16456	40	22°422	21°036	16528	18	25°421	24°918
16241*	40	15°036	15°400	16313	39	10°802	17°793	16385	14	19°350	19°774	16457	14	22°698	21°036	16529	17	0°354	25°514
16242	24	15°556	15°480	16314	37	11°010	17°290	16386	39	19°763	19°577	16458	22	25°666	22°136	16530	14	0°608	25°350
16243	25	15°752	15°232	16315	17	11°528	17°010	16387	29	20°222	19°754	16459	28	2°636	22°580	16531	17	1°850	25°449
16244	24	16°077	15°100	16316	20	12°080	17°940	16388	27	22°028	19°290	16460	21	4°881	22°850	16532	44	0°938	25°030
16245	10	16°348	15°044	16317	20	14°301	17°470	16389	18	22°998	19°252	16461	58	5°750	22°789	16533	15	7°224	25°182
16246	21	16°700	15°974	16318	35	15°660	17°578	16390	12	23°560	19°220	16462	34	6°750	22°398	16534	38	9°482	25°326
16247	21	16°735	15°916	16319	40	16°044	17°554	16391	12	25°280	19°817	16463	16	7°390	22°468	16535	17	10°830	25°008
16248	22	16°890	15°108	16320	35	16°876	17°531	16392	21	25°830	19°064	16464	39	9°144	22°215	16536	23	13°480	25°300
16249	14	17°562	15°980	16321	12	17°852	17°950	16393	18	0°968	20°471	16465	16	9°660	22°280	16537	25	14°474	25°020
16250	11	18°469	15°569	16322	27	18°386	17°130	16394	15	1°041	20°414	16466	16	11°094	22°591	16538	19	14°334	25°360
16251	15	18°820	15°799	16323	28	18°400	17°121	16395	14	2°006	20°230	16467	34	12°171	22°301	16539	24	16°320	25°230
16252	27	18°860	15°050	16324	16	18°686	17°330	16396	10	3°274	20°842	16468	12	12°171	22°301	16540	21	16°806	25°480
16253	23	18°920	15°257	16325	13	18°821	17°860	16397	12	3°275	20°080	16469	16	12°350	22°748	16541	33	17°708	25°010
16254*	95	19°476	15°322	16326	16	19°280	17°330	16398	14	3°306	20°030	16470	23	13°548	22°606	16542	13	18°410	25°080
16255	14	20°679	15°254	16327	16	23°323	17°368	16399	20	4°096	20°940	16471	33	13°548	22°606	16543	40	18°562	25°440
16256	13	21°374	15°732	16328	16	23°739	17°314	16400	20	6°590	20°130	16472	34	13°058	22°543	16544	12	19°398	25°660
16257	12	21°648	15°708	16329*	48	4°654	18°614	16401	13	6°771	20°525	16473	30	13°890	22°400	16545	21	20°534	25°224
16258	30	21°800	15°466	16330	18	5°805	18°916	16402	28	7°504	20°000	16474	12	17°627	22°170	16546	23	21°388	25°258
16259	20	21°872	15°282	16331	18	6°300	18°330	16403	22	8°540	20°516	16475	17	18°540	22°554	16547	53	23°006	25°974
16260	21	22°499	15°532	16332	13	7°070	18°961	16404	17	8°544	20°016	16476	32	19°106	22°293	16548	50	21°900	25°420
16261	20	23°102	15°708	16333	18	7°716	18°050	16405	27	8°950	20°230	16477	16	19°250	22°450	16549	14	25°027	25°638
16262	23	23°778	15°151	16334	14	8°772	18°637	16406	17	9°447	20°684	16478	22	19°260	22°210				
16263	13	23°916	15°020	16335	44	8°784	18°870	16407	17	10°133	20°610	16479	29	19°310	22°136				
16264	25	24°030	15°465	16336	16	9°937	18°670	16408	18	10°604	20°864	16480	15	20°047	22°930				
16265	12	25°109	15°049	16337	45	10°300	18°960	16409	15	11°619	20°688	16481	18	22°165	22°306				
16266	35	25°490	15°330	16338	13	10°369	18°146	16410	29	11°780	20°814	16482	10	22°165	22°306				
16267	13	0°306	16°167	16339	12	10°482	18°956	16411	25	13°936	20°938	16483	13	22°590	22°710				
16268	19	1°470	16°422	16340	14	11°088	18°192	16412	38	14°078	20°260	16484	26	22°860	22°824				
16269	19	2°213	16°007	16341	11	12°332	18°350	16413	41	14°916	20°050	16485	14	23°740	22°541				
16270	28	2°573	16°944	16342	17	12°885	18°280	16414	17	15°133	20°470	16486	49	23°840	22°115				
16271	23	3°580	16°821	16343	11	16°120	18°190	16415	16	15°736	20°450	16487	15	25°570	22°052				
16272*	41	4°348	16°420	16344*	89	16°221	18°568	16416	26	17°221	20°303	16488	17	25°603	22°432				
16273	28	5°440	16°883	16345	11	16°941	18°656	16417	24	17°492	20°212	16489	15	25°603	22°432				
16274	14	8°278	16°528	16346	14	17°068	18°776	16418	26	18°170	20°264	16490	33	2°376	23°474				
16275	21	8°636	16°104	16347	14	17°892	18°626	16419	31	18°924	20°335	16491	13	4°100	23°352				
16276	22	9°102	16°230	16348	19	19°064	18°434	16420	21	20°665	20°030	16492	35	4°862	23°616				
16277	11	9°114	16°214	16349	24	19°900	18°856	16421	13	20°600	20°310	16493	21	5°531	23°532				
16278	13	11°106	16°026	16350	12	20°602	18°596	16422	14	20°604	20°288	16494	40	6°652	23°529				
16279	15	11°601	16°047	16351	12	21°518	18°810	16423	22	22°880	20°878	16495	37	6°945	23°004				
16280	16	11°887	16°371	16352	17	21°969	18°341	16424	16	23°880	20°160	16496	20	7°688	23°250				
16281	13	11°976	16°884	16353	14	22°750	18°100	16425	28	24°272	20°244	16497	24	7°848	23°830				
16282	19	13°118	16°768	16354	26	23°126	18°299	16426	14	24°686	20°488	16498	16	8°346	23°750				
16283	15	13°206	16°726	16355	14	23°254	18°252	16427	10	25°260	20°954	16499	30	8°550	23°472				
16284	40	13°490	16°572	16356	16	23°600	18°147	16428	25	0°001	21°352	16500	25	8°691	23°580				
16285	24	14°315	16°964	16357	13	23°660	18°780	16429	15	0°527	21°040	16501	11	11°574	23°420				
16286	18	14°990	16°496	16358	25	23°862	18°450	16430	10	1°586	21°321	16502	23	12°070	23°078				
16287	14	15°243	16°330	16359	16	2°018	19°740	16431	25	2°320	21°537	16503	34	13°001	23°787				
16288	17	15°656	16°590	16360	18	2°350	19°041	16432	12	3°362	21°230	16504	22	13°286	23°498				
16289	34	18°820	16°702	16361	14	4°218	19°154	16433	22	3°381	21°220	16505	16	18°126	23°858				
16290	28	20°006	16°726	16362	18	5°376	19°772	16434	14	4°661	21°913	16506	26	19°496	23°625				
16291	27	20°698	16°655	16363	20	7°993	19°808	16435	20	4°920	21°819	16507	19	21°173	23°570				
16292	13	20°703	16°840	16364	14	8°185	19°086	16436	41	7°210	21°142	16508	10	21°254	23°360				
16293	31	21°987	16°942	16365	17	8°418	19°726	16437	12	7°326	21°543	16509	16	22°866	23°300				
16294	28	22°464	16°064	16366	42	8°622	19°554	16438	17	7°344	21°462	16510	19	24°232	23°394				
16295	35	24°175	16°266	16367	18	9°799	19°144	16439	16	9°096	21°808	16511	10	25°186	23°668				
16296	14	24°638	16°206	16368	18	9°840	19°420	16440	24	9°508	21°229	16512	30	25°544	23°758				
16297	23	25°590	16°907	16369	39	10°001	19°510	16441	14	0°626	21°698	16513	20	2°604	24°382				
16298	24	0°172	17°030	16370	24	11°007	19°906	16442*	54	10°318	21°956	16514	26	2°560	24°300				
16299	12	0°456	17°206	16371	15	11°762	19°494	16443	38	11°140	21°708	16515	47	3°692	24°366				
16300	10	1°186	17°998	16372	30	11°932	19°082	16444	18	11°528	21°982	16516	14	5°416	24°320				
16301	15	2°200	17°776	16373	15	12°407	19°327	16445	26	11°730	21°470	16517	17	9°046	24°374				
16302	14	3°670	17°842	16374	12	12°640	19°461	16446	16	12°709	21°149	16518	16	9°740	24°916				
16303	31	4°008	17°164	16375	42	13°626	19°720	16447	20	10°106	21°668	16519	16	10°595	24°630				
16304	27	4°798																	

16577	18	15-204	0-813	16649	16	13-116	2-452	16721	17	15-338	4-214	16793	13	14-021	6-016	16865	22	0-698	8-926
16578	56	15-330	0-238	16650	15	13-162	2-060	16722	14	17-290	4-225	16794	15	14-382	6-556	16866	21	1-752	8-733
16579	34	16-216	0-342	16651	41	14-100	2-270	16723	18	17-324	4-305	16795	14	15-641	6-884	16867	19	3-812	8-496
16580	15	16-422	0-249	16652	34	14-581	2-664	16724	42	17-844	4-634	16796	16	16-320	6-954	16868	19	4-242	8-052
16581	46	17-052	0-624	16653	39	15-087	2-722	16725	13	18-010	4-240	16797	16	16-354	6-076	16869	16	4-252	8-897
16582	18	17-911	0-408	16654	19	15-187	2-632	16726	17	18-806	4-821	16798	15	16-360	6-223	16870	22	4-703	8-734
16583	16	18-050	0-648	16655	37	15-742	2-866	16727	34	18-930	4-108	16799	12	17-473	6-290	16871	18	4-854	8-295
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17688*	42	7.774	2.001	17760	12	17.066	4.318	17832	12	19.001	6.620	17904	44	19.460	8.262	17976	18	11.278	10.734
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17691	13	10.657	2.402	17763	11	17.341	4.054	17835	12	22.717	6.419	17907	19	19.688	8.110	17979	12	11.856	10.272
17692	40	12.972	2.829	17764	41	18.018	4.811	17836	47	22.984	6.013	17908	38	20.088	8.720	17980	18	12.172	10.512
17693*	50	13.206	2.994	17765	40	18.104	4.851	17837	43	23.738	6.482	17909	33	20.472	8.032	17981	19	12.127	10.021
17694	15	13.320	2.880	17766	18	18.846	4.424	17838	16	1.174	7.860	17910	26	20.974	8.052	17982	17	12.850	10.582
17695	53	13.443	2.298	17767	29	18.906	4.057	17839	25	1.608	7.702	17911	31	21.728	8.196	17983	24	13.253	10.012
17696*	59	13.490	2.540	17768	11	19.228	4.132	17840	18	2.210	7.390	17912	24	21.826	8.932	17984	30	13.977	10.459
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17698	31	14.306	2.698	17770	14	21.188	4.499	17842	24	2.421	7.272	17914	20	0.673	9.660	17986	25	15.514	10.098
17699	21	14.714	2.223	17771	17	21.948	4.856	17843	10	3.262	7.436	17915	31	0.701	9.599	17987	24	15.374	10.292
17700	41	15.350	2.082	17772	14	22.730	4.898	17844	19	4.022	7.057	17916	41	0.902	9.408	17988	21	15.423	10.170
17701	30	15.466	2.292	17773	22	23.212	4.802	17845	38	4.192	7.549	17917	29	1.365	9.808	17989	33	17.560	10.701
17702	17	15.796	2.000	17774	17	23.360	4.958	17846	17	4.996	7.972	17918	19	4.136	9.049	17990	41	17.668	10.028
17703	37	16.638	2.480	17775	25	23.975	5.133	17847	30	7.958	7.395	17919	21	4.154	9.120	17991	14	21.542	10.001
17704	22	18.156	2.082	17776	31	1.036	5.834	17848	21	8.381	7.150	17920	44	5.064	9.286	17992	13	21.594	10.374
17705	36	19.055	2.475	17777	10	1.224	5.460	17849	11	8.828	7.658	17921	12	6.384	9.421	17993	11	21.613	10.409
17706	40	19.635	2.430	17778	20	1.236	5.285	17850	31	8.830	7.526	17922	20	6.410	9.178	17994	20	21.710	10.048
17707	33	20.078	2.410	17779	21	2.474	5.984	17851	14	9.446	7.448	17923	12	6.682	9.788	17995	52	23.672	10.188
17708	20	20.774	2.050	17780	30	4.400	5.668	17852	14	9.842	7.278	17924	25	6.690	9.180	17996	19	24.038	10.490
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17711	38	23.998	2.642	17783	13	8.508	5.458	17855	17	11.527	7.885	17927	20	8.440	9.721	17999	10	24.656	10.333
17712	13	24.178	2.980	17784	20	9.024	5.842	17856	16	11.553	7.885	17928	18	8.502	9.452	18000	11	25.011	10.767
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17714*	58	0.008	3.642	17786	38	10.580	5.462	17858	11	11.898	7.632	17930*	90	9.890	9.808	18002	39	25.300	10.124
17715	21	0.324	3.980	17787	13	11.332	5.548	17859	21	12.273	7.256	17931	40	10.162	9.878	18003	14	0.594	11.540
17716	41	1.090	3.022	17788	30	13.403	5.662	17860	15	13.273	7.916	17932	37	11.446	9.602	18004	39	1.647	11.598
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17718	19	3.778	3.139	17790	36	14.516	5.966	17862	44	15.532	7.887	17934	31	12.003	9.284	18006	10	3.530	11.890
17719*	42	3.846	3.676	17791	23	16.294	5.034	17863	23	16.296	7.498	17935	27	12.520	9.322	18007	17	3.938	11.204
17720	10	3.932	3.277	17792	13	16.628	5.084	17864	50	17.088	7.988	17936	24	12.592	9.903	18008	17	4.400	11.572
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17723	33	10.050	3.640	17795	24	17.494	5.452	17867	22	18.384	7.570	17939	31	14.798	9.150	18011	15	6.640	11.755
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17725	13	11.412	3.879	17797	12	17.494	5.452	17869	21	20.168	7.776	17941	21	15.552	9.713	18013	39	6.690	11.110
17726	23	12.259	3.440	17798	23	18.688	5.216	17870	15	20.222	7.624	17942	28	16.458	9.582	18014	16	6.944	11.200
17727	14	13.359	3.341	17799	24	18.757	5.256	17871	43	20.514	7.470	17943	19	16.806	9.201	18015	26	7.092	11.832
17728	28	14.057	3.484	17800	29	18.857	5.070	17872	48	20.639	7.372	17944	25	17.031	9.818	18016	25	7.920	11.040
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17730	10	15.414	3.539	17802	37	20.862	5.958	17874	22	20.880	7.210	17946	16	17.500	9.327	18018	26	8.734	11.422
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17733	14	16.986	3.832	17805	45	22.740	5.069	17877	15	23.079	7.487	17949	17	18.710	9.160	18021	19	9.502	11.240
17734	30	17.182	3.686	17806	24	23.130	5.710	17878	37	25.951	7.645	17950	22	19.008	9.818	18022	30	10.316	11.049
17735	33	19.793	3.694	17807	22	24.003	5.202	17879	11	1.000	8.230	17951	19	20.127	9.920	18023	19	10.376	11.574
17736	45	19.842	3.864	17808	45	0.283	6.124	17880*	43	4.985	8.490	17952	28	20.236	9.502	18024	20	10.646	11.275
17737	15	20.056	3.962	17809*	50	0.775	6.836	17881	11	5.530	8.645	17953	15	20.610	9.472	18025	30	11.646	11.675
17738	17	20.400	3.884	17810	24	1.253	6.639	17882	13	6.860	8.380	17954	13	21.209	9.056	18026	10	11.734	11.200
17739	11	21.737	3.999	17811	21	2.252	6.809	17883	10	6.986	8.610	17955	11	21.480	9.049	18027	24	11.895	11.741
17740	25	22.518	3.899	17812	22	2.310	6.858	17884	37	8.016	8.724	17956	36	21.803	9.912	18028	14	12.662	11.602
17741	44	22.804	3.448	17813	14	2.676	6.076	17885	16	8.100	8.252	17957	40	21.965	9.911	18029	10	12.636	11.8



18039	40	17°508	11°501	18111	18	5°578	13°460	18183	23	17°765	14°270	18255	33	8°186	16°842	18327	14	20°307	17°572
18040	27	18°634	11°360	18112	10	5°642	13°281	18184	17	18°788	14°203	18256	19	8°267	16°270	18328	11	20°546	17°841
18041	11	19°411	11°471	18113	23	6°183	13°127	18185	36	19°626	14°812	18257	13	8°650	16°640	18329	27	21°920	17°146
18042	10	19°672	11°228	18114	23	6°385	13°770	18186	29	20°002	14°772	18258	102	8°716	16°762	18330	40	24°445	17°508
18043	14	19°879	11°302	18115	21	7°406	13°608	18187	20	20°411	14°552	18259	54	8°752	16°811	18331	27	24°530	17°999
18044	43	20°436	11°685	18116	10	7°947	13°285	18188	10	20°556	14°970	18260	25	9°270	16°092	18332	26	25°371	17°392
18045	21	21°590	11°127	18117	12	9°774	13°326	18189	36	20°622	14°834	18261	16	9°430	16°552	18333	12	25°778	17°515
18046	10	21°749	11°480	18118	19	9°935	13°233	18190	31	20°880	14°142	18262	32	10°186	16°521	18334	21	25°810	17°387
18047	28	21°932	11°460	18119	33	10°451	13°138	18191	27	21°820	14°372	18263	14	11°000	16°040	18335	11	25°810	17°387
18048	30	21°936	11°606	18120	11	10°514	13°648	18192	17	24°300	14°987	18264	14	11°028	16°344	18336	12	25°810	17°387
18049	25	22°438	11°157	18121	11	10°698	13°158	18193	16	24°485	14°700	18265	15	11°350	16°377	18337	14	25°810	17°387
18050	26	22°626	11°739	18122	12	10°749	13°308	18194	28	25°001	14°880	18266	18	12°040	16°004	18338	20	25°810	17°387
18051	18	22°816	11°216	18123	11	10°951	13°709	18195	19	25°082	14°230	18267	48	12°764	16°079	18339	14	25°810	17°387
18052	15	22°918	11°312	18124	21	11°088	13°936	18196	35	25°158	14°600	18268	24	12°900	16°714	18340	27	25°810	17°387
18053	31	24°850	11°378	18125	16	11°246	13°228	18197	13	25°363	14°470	18269	53	13°028	16°460	18341	13	25°810	17°387
18054	10	0°512	12°354	18126	32	11°742	13°859	18198	29	0°468	15°270	18270	22	13°839	16°774	18342	15	25°810	17°387
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18057	13	1°922	12°171	18129	16	12°378	13°419	18201	35	3°076	15°609	18273	12	15°280	16°188	18345	16	25°810	17°387
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18059	23	3°550	12°744	18131	24	12°777	13°506	18203	11	6°228	15°431	18275	21	15°996	16°400	18347	15	25°810	17°387
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18079	37	14°410	12°345	18151	33	23°368	13°282	18223	20	13°132	15°300	18295	13	4°608	17°686	18367	11	25°810	17°387
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18087	33	18°340	12°792	18159	29	2°830	14°243	18231	28	19°042	15°289	18303	30	7°559	17°905	18375	31	25°810	17°387
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18463	44	10-937	21-000	18535	32	21-935	22-288	18607	29	22-956	24-846					18743	33	12-915	2-958
18464	25	10-958	21-948	18536	11	22-902	22-302	18608	26	1-506	25-454					18744	21	13-092	2-772
18465	11	11-882	21-751	18537	15	23-754	22-726	18609	21	1-604	25-904					18745	21	13-197	2-142
18466	12	12-213	21-802	18538	44	24-388													

18751	14	18-628	2-652	18823	10	8-442	4-422	18895	29	18-888	5-860	18967	36	8-344	7-436	19039	12	18-183	8-246
18752	38	18-765	2-047	18824	21	8-506	4-220	18896	25	19-340	5-664	18968	13	8-378	7-444	19040	16	18-675	8-344
18753	11	18-980	2-563	18825	31	9-015	4-004	18897	37	19-970	5-498	18969	18	9-108	7-034	19041	19	18-810	8-837
18754	12	20-142	2-592	18826	11	9-102	4-280	18898	21	20-292	5-080	18970	10	9-278	7-489	19042	10	19-257	8-968
18755	14	20-612	2-806	18827	13	9-499	4-534	18899	26	21-076	5-140	18971	10	9-680	7-420	19043	21	20-568	8-751
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18757	13	22-533	2-624	18829	14	10-094	4-388	18901	17	21-746	5-820	18973	12	12-620	7-251	19045	11	21-178	8-792
18758	16	22-689	2-724	18830	11	10-280	4-800	18902	24	21-892	5-122	18974	31	12-650	7-976	19046	16	23-203	8-541
18759	38	22-854	2-358	18831	40	10-681	4-246	18903	10	22-483	5-478	18975	11	12-810	7-206	19047	31	23-683	8-428
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18761	29	23-055	2-925	18833	11	11-439	4-616	18905	48	23-172	5-174	18977	13	13-128	7-672	19049	34	0-012	9-970
18762	35	24-809	2-966	18834	36	11-872	4-642	18906	14	24-700	5-035	18978	10	13-242	7-664	19050	36	0-172	9-966
18763	34	25-043	2-294	18835	14	11-882	4-648	18907	35	25-590	5-717	18979	31	13-301	7-132	19051	39	1-510	9-339
18764	18	25-577	2-164	18836	32	13-027	4-015	18908	32	25-736	5-789	18980	19	13-505	7-400	19052	34	2-370	9-080
18765	26	0-641	3-945	18837	11	13-198	4-077	18909	16	0-215	6-184	18981	23	14-301	7-759	19053	22	3-105	9-990
18766	40	0-916	3-492	18838	12	13-488	4-734	18910	14	0-878	6-462	18982	10	14-652	7-834	19054	34	3-620	9-436
18767	24	1-610	3-832	18839	13	13-604	4-754	18911	48	1-129	6-053	18983	10	14-729	7-866	19055	28	4-336	9-764
18768	31	1-675	3-231	18840	18	15-084	4-555	18912	39	1-864	6-510	18984	23	14-792	7-028	19056	29	4-600	9-644
18769	11	1-800	3-618	18841	12	15-385	4-436	18913	17	1-660	6-452	18985	21	16-303	7-362	19057	14	6-747	9-012
18770	13	2-287	3-000	18842	30	15-863	4-022	18914	11	5-454	6-280	18986	24	17-515	7-397	19058	37	7-000	9-820
18771	10	2-998	3-786	18843	16	15-974	4-294	18915	17	8-130	6-940	18987	25	18-928	7-136	19059	34	7-110	9-962
18772	24	4-066	3-846	18844	33	16-170	4-771	18916	14	8-440	6-386	18988	10	19-612	7-406	19060	12	8-247	9-331
18773	27	4-234	3-895	18845	22	17-350	4-691	18917	23	8-710	6-960	18989	14	20-200	7-760	19061	10	8-666	9-975
18774	12	4-260	3-664	18846	29	17-514	4-830	18918	31	9-534	6-022	18990	24	20-278	7-451	19062	11	8-925	9-936
18775	31	5-280	3-190	18847	32	17-549	4-661	18919	12	9-821	6-252	18991	15	20-715	7-006	19063	23	9-211	9-503
18776	37	5-446	3-862	18848	29	18-075	4-260	18920	23	9-843	6-362	18992	24	20-754	7-011	19064	28	9-740	9-527
18777	12	5-459	3-234	18849	31	18-975	4-105	18921	33	10-605	6-908	18993	21	21-036	7-143	19065	17	10-620	9-102
18778	13	7-096	3-673	18850	31	19-660	4-302	18922	10	11-356	6-198	18994	12	21-683	7-428	19066	32	10-664	9-554
18779	37	8-204	3-615	18851	37	20-118	4-202	18923	17	11-532	6-219	18995	18	21-808	7-596	19067	10	11-458	9-770
18780	11	8-852	3-356	18852	21	20-241	4-202	18924	19	12-738	6-024	18996	11	22-300	7-424	19068	35	12-012	9-684
18781	16	9-604	3-312	18853	27	22-108	4-544	18925	19	12-840	6-024	18997	41	22-580	7-711	19069	15	12-920	9-254
18782	10	11-698	3-213	18854	22	23-166	4-392	18926	30	14-200	6-016	18998	10	23-771	7-680	19070	11	13-745	9-095
18783	10	11-814	3-606	18855	29	24-626	4-992	18927	23	14-768	6-171	18999	44	23-881	7-438	19071	22	13-889	9-811
18784	36	14-556	3-510	18856	12	25-520	4-282	18928	13	14-770	6-186	19000	11	24-060	7-275	19072	22	14-052	9-088
18785	15	14-960	3-615	18857	42	0-800	5-586	18929	28	14-775	6-430	19001	16	25-056	7-986	19073	27	14-534	9-922
18786	26	15-494	3-890	18858	35	0-876	5-112	18930	12	15-472	6-572	19002	15	25-571	7-452	19074	66	14-726	9-150
18787	15	15-938	3-204	18860	11	1-822	5-801	18931	22	15-742	6-412	19003	40	25-584	7-645	19075	10	14-856	9-054
18788	10	15-870	3-821	18861	26	2-144	5-226	18932	37	15-798	6-675	19004	24	0-024	8-988	19076	10	15-480	9-972
18789	20	17-198	3-353	18862	10	3-449	5-418	18933	29	16-202	6-520	19005	12	0-016	8-912	19077	25	15-600	9-888
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18791	24	18-441	3-954	18864	29	7-090	5-934	18935	26	16-689	6-734	19007	29	4-242	8-331	19079	28	17-028	9-327
18792	12	18-447	3-041	18865	14	7-095	5-316	18936	35	16-689	6-734	19008	27	4-246	8-236	19080	70	17-082	9-662
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18795	24	19-699	3-770	18868	27	8-354	5-392	18939	22	18-638	6-200	19011	15	4-556	8-098	19083	46	19-600	9-511
18796	14	19-914	3-480	18869	21	8-505	5-318	18940	11	18-724	6-740	19012	21	5-097	8-506	19084	20	20-102	9-618
18797	22	20-534	3-721	18870	33	8-752	5-676	18941	19	18-865	6-628	19013	25	5-340	8-102	19085	58	20-810	9-512
18798	13	20-886	3-568	18871	12	9-138	5-866	18942	22	19-484	6-924	19014	14	6-549	8-532	19086	38	21-075	9-212
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18800	14	21-161	3-626	18873	3	9-488	5-514	18944	12	19-509	6-004	19016	17	7-662	8-214	19088	14	21-934	9-206
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18802	12	23-022	3-002	18875	37	10-694	5-100	18946	21	19-842	6-201	19018	10	9-261	8-813	19090	12	23-020	9-407
18803	16	23-181	3-899	18876	21	11-469	5-787	18947	30	20-520	6-314	19019	30	9-691	8-275	19091	32	23-728	9-583
18804	28	24-248	3-838	18877	15	11-480	5-183	18948	20	21-480	6-748	19020	40	11-033	8-101	19092	31	24-687	9-436
18805	35	24-344	3-356	18878	19	11-742	5-514	18949	22	22-123	6-330	19021	20	12-124	8-836	19093	26	24-972	9-442
18806	14	24-440	3-050	18879	21	11-852	5-870	18950	26	22-816	6-482	19022	16	12-238	8-278	19094	13	24-975	9-178
18807	36	24-910	3-755	18880	13	12-030	5-687	18951	29	23-214	6-880	19023	25	13-209	8-022	19095	29	25-594	9-662
18808	17	0-084	4-912	18881	31	14-180	5-808	18952	22	23-846	6-437	19024	39	13-447	8-309	19096	43	1-884	10-217
18809	20	0-869	4-939	18882	33	15-076	5-240	18953	16	1-256	7-522	19025	39	14-070	8-845	19097	12	1-960	10-874
18810	24	1-350	4-838	18883	12	15-182	5-628	18954	12	2-708	7-762	19026	11	14-244	8-841	19098	21	2-260	10-511
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18812	28	2-108	4-536	18885	12	15-910	5-851	18956	19	4-274	7-298	19028	18	14-398	8-537	19100	15	2-651	10-574
18813	10	2-489	4-283	18886	17	16-054	5-420	18957	32	4-714	7-592	19029	15	14-570	8-014	19101	19	2-874	10-347
18814	11	3-098	4-140	18887															



19111	17	5°9'12	10°18'4	19183	31	15°6'95	11°11'4	19255	38	16°6'72	12°55'4	19327	35	21°7'26	13°37'4	19399	14	3°7'50	15°35'6
19112	21	6°5'34	10°7'45	19184	12	15°8'44	11°4'33	19256	18	16°8'70	12°00'0	19328	45	22°0'94	13°27'6	19400	38	3°9'40	15°7'88
19113	16	6°9'96	10°5'13	19185	16	15°9'76	11°3'99	19257	23	16°8'97	12°58'0	19329	18	22°8'09	13°45'9	19401	37	4°1'54	15°9'73
19114	37	7°0'00	10°25'0	19186	53	16°1'32	11°7'50	19258	10	17°4'70	12°11'2	19330	11	23°0'56	13°09'0	19402	12	5°5'02	15°8'16
19115	23	7°3'86	10°3'99	19187	19	16°1'79	11°4'70	19259	14	18°2'24	12°8'60	19331	25	24°0'82	13°9'04	19403	11	6°7'42	15°5'48
19116	20	8°0'80	10°6'78	19188	25	16°5'00	11°5'00	19260	13	18°2'26	12°4'60	19332	15	24°4'82	13°6'39	19404	16	6°8'34	15°5'07
19117	11	8°3'28	10°5'21	19189	12	17°0'20	11°2'23	19261	16	18°3'74	12°0'70	19333	12	25°8'26	13°7'77	19405	31	7°8'40	15°2'08
19118	16	8°5'45	10°0'60	19190	28	18°2'38	11°9'46	19262	23	19°3'28	12°8'12	19334	34	25°9'85	13°7'56	19406	34	8°0'13	15°7'94
19119	25	9°2'36	10°1'96	19191	21	18°5'92	11°5'94	19263	14	20°6'57	12°7'46	19335	27	26°0'98	14°4'30	19407	34	8°9'34	15°0'81
19120	40	9°2'50	10°0'70	19192	35	19°2'36	11°2'11	19264	26	20°6'82	12°7'38	19336	14	26°0'64	14°6'80	19408	31	9°2'55	15°6'76
19121	22	9°5'25	10°9'42	19193	15	19°4'00	11°6'98	19265	22	20°6'94	12°0'51	19337	21	27°2'34	14°7'54	19409	21	9°6'44	15°0'17
19122	23	10°2'64	10°8'14	19194	26	19°4'79	11°6'56	19266	18	21°8'20	12°0'80	19338	20	27°7'00	14°7'16	19410	12	10°0'40	15°0'88
19123	21	10°3'44	10°3'50	19195	23	19°8'02	11°9'69	19267	34	22°0'45	12°4'05	19339	30	3°28'7	14°8'88	19411	22	10°6'60	15°0'73
19124	46	10°7'74	10°5'22	19196	31	20°1'96	11°6'81	19268	14	22°5'16	12°9'02	19340	27	3°35'6	14°2'36	19412	26	11°7'52	15°0'55
19125	34	11°0'38	10°5'46	19197	28	21°4'37	11°0'38	19269	31	22°9'18	12°9'90	19341	33	3°43'8	14°6'06	19413	22	11°7'88	15°3'77
19126	18	11°0'64	10°0'98	19198	16	21°4'54	11°8'36	19270	10	23°3'00	12°2'54	19342	17	3°47'8	14°7'80	19414	24	13°4'01	15°4'21
19127	29	11°0'65	10°3'76	19199	22	21°4'84	11°4'85	19271	20	23°3'08	12°1'46	19343	22	3°43'3	14°4'73	19415	26	13°7'38	15°3'10
19128	36	12°2'98	10°5'82	19200	103	21°7'96	11°4'53	19272	29	23°9'01	12°5'77	19344	10	4°6'25	14°0'16	19416	14	13°9'66	15°4'50
19129	37	13°4'90	10°3'70	19201	17	22°1'62	11°9'90	19273	10	24°0'70	12°0'58	19345	25	5°42'5	14°5'65	19417	34	14°0'35	15°3'83
19130	10	13°6'80	10°0'11	19202	18	22°2'78	11°9'22	19274	24	24°3'50	12°0'50	19346	32	5°60'4	14°0'99	19418	21	14°2'88	15°2'76
19131	33	13°8'81	10°0'89	19203	22	24°0'72	11°5'84	19275	12	24°8'48	12°1'53	19347	10	5°64'3	14°9'08	19419	33	14°5'74	15°9'80
19132	21	14°0'54	10°9'18	19204	33	24°7'34	11°3'62	19276	57	0°6'11	13°3'46	19348	13	6°11'5	14°2'20	19420	35	14°8'16	15°7'68
19133	10	14°9'09	10°0'49	19205	10	24°8'98	11°2'10	19277	34	0°6'26	13°3'39	19349	14	6°77'0	14°9'33	19421	21	15°1'01	15°9'06
19134	33	15°3'14	10°4'66	19206	29	24°9'35	11°1'74	19278	32	1°0'44	13°0'15	19350	15	7°05'8	14°0'28	19422	30	15°9'75	15°6'48
19135	13	15°3'86	10°6'66	19207	19	25°0'94	11°0'59	19279	28	1°20'3	13°7'95	19351	21	7°68'5	14°6'02	19423	19	15°9'79	15°8'92
19136	14	15°7'74	10°8'24	19208	13	25°4'91	11°2'10	19280	13	2°28'0	13°1'32	19352	29	8°23'0	14°1'12	19424	24	16°1'06	15°0'62
19137	13	16°1'77	10°4'40	19209	16	25°9'50	11°8'85	19281	36	3°54'4	13°6'15	19353	12	8°78'8	14°8'70	19425	33	17°5'99	15°3'54
19138	15	16°6'50	10°0'20	19210	31	0°3'44	12°3'91	19282	34	5°38'1	13°7'04	19354	12	9°26'0	14°2'68	19426	19	17°7'82	15°9'02
19139	13	16°8'72	10°8'10	19211	15	0°6'46	12°1'16	19283	10	5°57'0	13°7'70	19355	17	9°30'6	14°8'52	19427	21	17°8'92	15°0'90
19140	14	16°9'17	10°4'07	19212	22	0°6'62	12°8'03	19284	30	5°70'1	13°1'41	19356	17	10°0'30	14°5'08	19428	30	18°2'35	15°3'38
19141	10	17°9'22	10°6'22	19213	35	0°6'75	12°8'83	19285	12	5°95'4	13°4'64	19357	16	10°0'30	14°5'33	19429	26	19°4'56	15°4'00
19142	22	18°0'38	10°0'95	19214	36	0°7'22	12°4'11	19286	12	6°08'0	13°5'12	19358	22	10°5'16	14°5'21	19430	14	19°5'09	15°3'13
19143	34	18°6'00	10°1'68	19215	10	2°6'99	12°8'46	19287	13	7°11'5	13°0'82	19359	26	10°6'65	14°3'04	19431	40	19°5'59	15°8'44
19144	29	18°6'99	10°8'00	19216	14	3°3'15	12°1'45	19288	12	7°9'32	13°8'38	19360	27	11°7'65	14°5'12	19432	32	19°5'86	15°0'90
19145	32	18°8'49	10°8'80	19217	29	3°3'45	12°9'66	19289	10	8°22'0	13°9'16	19361	57	11°9'20	14°7'12	19433	20	19°9'97	15°3'65
19146	19	19°4'40	10°7'77	19218	15	3°50'1	12°9'09	19290	12	8°25'4	13°9'26	19362	22	12°1'01	14°6'12	19434	29	20°1'66	15°2'66
19147	10	20°3'58	10°0'48	19219	27	3°6'58	12°1'85	19291	39	8°37'6	13°5'01	19363	31	13°3'36	14°6'30	19435	14	20°9'40	15°2'54
19148	13	20°4'34	10°6'25	19220	12	5°08'0	12°3'26	19292	27	8°59'4	13°1'99	19364	18	13°69'3	14°6'06	19436	20	21°0'66	15°8'36
19149	17	20°8'60	10°8'09	19221	26	5°26'1	12°5'76	19293	19	8°76'2	13°7'48	19365	14	13°70'0	14°5'08	19437	11	21°9'21	15°3'18
19150	14	22°3'04	10°5'55	19222	26	5°53'4	12°6'36	19294	23	9°00'4	13°5'04	19366	12	13°7'24	14°2'17	19438	34	21°9'35	15°5'39
19151	12	23°4'65	10°1'46	19223	29	5°53'8	12°9'36	19295	10	9°20'6	13°1'10	19367	10	14°3'98	14°2'11	19439	20	21°9'60	15°8'66
19152	14	24°0'76	10°1'46	19224	33	5°58'8	12°3'25	19296	12	9°25'6	13°5'28	19368	14	14°7'36	14°3'28	19440	42	22°4'80	15°6'15
19153	14	24°2'80	10°4'23	19225	12	5°99'0	12°2'96	19297	40	9°79'0	13°8'74	19369	12	15°20'0	14°0'48	19441	26	22°9'78	15°0'65
19154	21	24°4'00	10°7'38	19226	26	6°24'1	12°9'61	19298	12	9°84'6	13°3'20	19370	17	15°26'0	14°3'40	19442	35	24°2'26	15°1'16
19155	11	25°5'68	10°2'23	19227	33	6°50'2	12°7'59	19299	32	10°4'69	13°1'31	19371	10	15°40'1	14°44'4	19443	29	25°8'22	15°7'84
19156	18	25°9'56	10°7'20	19228	22	6°50'6	12°0'46	19300	35	10°67'4	13°5'30	19372	15	15°8'12	14°6'01	19444	12	1°6'92	16°3'64
19157	12	25°9'71	10°4'06	19229	11	6°93'8	12°6'25	19301	37	10°9'39	13°3'84	19373	17	15°9'31	14°0'40	19445	15	1°9'94	16°6'22
19158	30	0°16'6	11°5'16	19230	22	7°7'40	12°0'31	19302	43	12°1'16	13°6'52	19374	26	16°7'58	14°0'59	19446	20	2°0'49	16°2'92
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19160	28	0°66'6	11°2'04	19232	36	8°5'78	12°1'53	19304	13	12°5'86	13°7'79	19376	12	17°2'54	14°4'30	19448	17	4°05'4	16°3'39
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19162	20	1°04'8	11°2'58	19234	16	9°43'2	12°0'98	19306	40	13°1'62	13°4'84	19378	27	17°7'00	14°0'88	19450	13	5°25'8	16°8'88
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21322	18	3-808	15-706	21394	25	7-580	16-934	21466	15	10-756	17-184	21538	12	17-122	18-666	21610	16	18-774	19-181
21323	16	3-990	15-840	21395	14	7-996	16-044	21467	17	10-880	17-843	21539	21	17-266	18-110	21611	15	18-958	19-950
21324	22	4-070	15-903	21396	11	8-270	16-040	21468	23	11-506	17-520	21540	11	17-710	18-774	21612	14	19-152	19-962
21325	17	4-570	15-543	21397	18	9-636	16-245	21469	23	11-884	17-190	21541	20	18-284	18-352	21613	26	19-436	19-826
21326	30	4-796	15-424	21398	27	9-820	16-391	21470	11	12-042	17-522	21542	26	18-460	18-510	21614	13	20-320	19-666
21327	16	5-500	15-128	21399	16	10-206	16-688	21471	11	12-238	17-188	21543	26	18-560	18-380	21615	17	20-650	19-645
21328	33	6-899	15-690	21400	17	10-360	16-425	21472	15	13-040	17-886	21544	16	19-186	18-510	21616	12	21-402	19-332
21329	13	7-210	15-624	21401	13	10-366	16-990	21473	22	13-557	17-306	21545	15	20-250	18-434	21617	30	22-130	19-410
21330	16	7-330	15-098	21402	14	10-416	16-040	21474	26	13-600	17-024	21546	17	20-526	18-906	21618	17	24-478	19-726
21331	19	7-402	15-790	21403	22	11-011	16-419	21475	35	13-760	17-780	21547	20	20-591	18-786	21619	19	24-588	19-708
21332	11	7-822	15-910	21404	24	11-338	16-380	21476	21	14-178	17-260	21548	27	21-260	18-018	21620	19	25-138	19-180
21333	30	7-868	15-630	21405	27	11-490	16-482	21477	13	14-690	17-849	21549	19	22-508	18-570	21621	28	2-514	20-000
21334	12	9-258	15-768	21406	16	12-666	16-321	21478	16	14-790	17-626	21550	21	22-820	18-876	21622	22	2-550	20-824
21335	16	9-912	15-198	21407	16	12-840	16-810	21479	14	15-002	17-878	21551	31	23-432	18-540	21623	45	3-012	20-993
21336	17	10-868	15-171	21408	15	13-130	16-440	21480	27	15-180	17-888	21552	17	24-634	18-650	21624	20	3-468	20-854
21337	41	11-268	15-404	21409	31	14-220	16-852	21481	26	15-373	17-860	21553	17	25-029	18-273	21625	35	3-803	20-918
21338	22	11-377	15-285	21410	15	14-316	16-088	21482	14	16-263	17-052	21554	18	25-336	18-706	21626	13	4-140	20-700
21339	21	11-808	15-614	21411	18	14-594	16-190	21483	38	17-355	17-335	21555	26	0-541	19-552	21627	24	4-225	20-522
21340	25	11-842	15-110	21412	24	14-981	16-075	21484	27	17-549	17-808	21556	14	0-541	19-375	21628	22	4-536	20-894
21341	13	12-178	15-970	21413	54	15-782	16-252	21485	15	17-588	17-422	21557	26	0-986	19-465	21629	15	5-366	20-072
21342	14	12-210	15-524	21414	14	15-876	16-452	21486	13	17-900	17-710	21558	21	1-338	19-851	21630	20	5-416	20-686
21343	53	12-780	15-682	21415	21	15-988	16-902	21487	17	18-026	17-640	21559	26	1-980					



21642	15	10-420	20-388	21714	22	24-347	21-683	21786	19	17-194	23-490	21858	15	12-416	25-897	21924	30	16-614	0-375
21643	25	10-520	20-470	21715	62	24-876	21-056	21787	11	18-877	23-208	21859	18	12-978	25-692	21925	32	17-192	0-532
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21645	42	10-782	20-312	21717	13	0-542	22-770	21789	16	21-532	23-819	21861	19	13-323	25-308	21927	41	18-112	0-486
21646	24	11-635	20-607	21718	28	1-028	22-950	21790	20	22-638	23-734	21862	15	14-291	25-092	21928	36	18-615	0-865
21647	28	11-850	20-120	21719	22	1-878	22-646	21791	26	22-900	23-976	21863	13	14-305	25-280	21929	32	18-749	0-110
21648	28	11-940	20-890	21720	17	3-416	22-890	21792	22	23-211	23-320	21864	10	14-322	25-830	21930	31	21-282	0-157
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21652	11	12-716	20-854	21724	16	6-245	22-128	21796	10	25-544	23-846	21868	14	16-652	25-011	21934	34	25-043	0-651
21653	45	13-090	20-025	21725	12	6-501	22-130	21797	34	0-016	24-500	21869	20	16-923	25-070	21935	26	25-340	0-268
21654	11	14-484	20-228	21726	16	7-126	22-970	21798	30	1-480	24-326	21870	19	17-590	25-618	21936	31	1-320	1-681
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21656	11	15-534	20-458	21728	52	8-238	22-321	21800	15	1-960	24-560	21872	23	18-265	25-940	21938	34	5-918	1-338
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21658	35	16-180	20-810	21730	22	8-806	22-501	21802	14	2-104	24-420	21874	22	18-746	25-647	21940	32	8-477	1-100
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21661	37	18-250	20-943	21733	21	10-823	22-866	21805	25	3-764	24-892	21877	28	19-776	25-016	21943	33	10-644	1-360
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21663	28	19-235	20-804	21735	15	14-335	22-866	21807	14	5-214	24-020	21879	42	23-150	25-926	21945	27	11-246	1-918
21664	17	19-534	20-827	21736	17	15-910	22-016	21808	61	5-566	24-960	21880	33	23-340	25-442	21946	55	11-547	1-920
21665	19	20-154	20-512	21737	25	16-140	22-840	21809	15	7-190	24-901	21881	29	24-617	25-576	21947	31	13-041	1-660
21666	11	20-860	20-966	21738	45	16-465	22-475	21810	49	7-864	24-184	21882	16	24-626	25-700	21948	42	14-194	1-232
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21670	19	24-774	20-130	21742	14	17-270	22-542	21814	25	11-236	24-720					21952	37	20-461	1-596
21671	20	24-878	20-906	21743	15	18-720	22-108	21815	18	11-444	24-120					21953	30	21-408	1-390
21672	56	25-345	20-420	21744	15	19-850	22-022	21816	17	11-512	24-070					21954	33	21-504	1-360
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21674	21	25-684	20-194	21746	25	20-332	22-408	21818	60	13-704	24-140					21956	34	25-430	1-501
21675	60	25-990	20-664	21747	11	20-672	22-200	21819	23	14-226	24-954					21957	31	25-470	1-849
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21689	15	10-863	21-672	21761	24	4-640	23-272	21833	22	19-854	24-428					21971	31	15-865	2-876
21690	32	11-254	21-266	21762	31	5-535	23-793	21834	14	20-644	24-607					21972	35	15-904	2-690
21691	13	11-270	21-546	21763	21	5-814	23-890	21835	18	20-942	24-443					21973	60	17-218	2-708
21692	30	12-073	21-199	21764	17	5-879	23-918	21836	15	21-194	24-598					21974	27	17-830	2-650
21693	15	12-116	21-650	21765	53	6-600	23-262	21837	36	21-519	24-687					21975	41	20-060	2-354
21694	20	12-526	21-540	21766	24	7-264	23-924	21838	53	22-474	24-625					21976	32	21-731	2-576
21695	19	12-570	21-091	21767	54	7-960	23-440	21839	23	23-624	24-816					21977	30	24-980	2-798
21696	16	13-691	21-585	21768	17	8-608	23-614	21840	14	25-160	24-638					21978	31	25-294	2-411
21697	17	15-572	21-654	21769	27	8-870	23-408	21841	17	1-340	25-750					21979	32	25-530	2-680
21698	28	15-684	21-516	21770	17	9-000	23-490	21842	14	1-614	25-254					21980	35	0-238	3-318
21699	27	15-830	21-135	21771	13	9-271	23-632	21843	19	1-924	25-448					21981	40	2-978	3-010
21700	32	16-154	21-487	21772	25	10-490	23-104	21844	50	1-960	25-120					21982	28	5-452	3-708
21701	34	16-354	21-610	21773	14	10-538	23-530	21845	60	2-040	25-280					21983	31	7-970	3-830
21702	14	17-180	21-006	21774	14	11-620	23-447	21846	12	2-582	25-805					21984	39	10-682	3-280
21703	16	17-200	21-357	21775	19	11-656	23-556	21847	12	4-800	25-167					21985	33	11-993	3-680
21704	18	17-424	21-621	21776	13	12-584	23-506	21848	19	6-302	25-480					21986	33	12-050	3-510
21705	25	17-728	21-214	21777	17	13-280	23-045	21849	11	6-658	25-974					21987	43	12-465	3-530
21706	41	18-665	21-820	21778	23	13-486	23-872	21850	34	7-968	25-964					21988	30	13-882	3-840
21707	20	18-998	21-600	21779	36	13-887	23-990	21851	20	8-641	25-656					21989	42	15-994	3-651
21708	19	2																	

21996	39	24°31'6"	3°54'	22068	24	15°31'0"	8°08'	22140	24	24°45'8"	11°96'	22212	30	24°89'4"	15°95'	22284	32	18°58'6"	19°52'8"
21997	33	4°29'6"	4°01'	22069	26	16°29'0"	8°24'	22141	34	25°22'3"	11°72'	22213	30	0°12'4"	16°08'	22285	45	18°72'8"	19°40'0"
21998	63	5°30'0"	4°11'	22070	31	17°11'7"	8°38'	22142	31	25°44'6"	11°97'	22214	30	2°6'2"	16°82'	22286	24	20°19'8"	19°19'1"
21999	27	5°32'8"	4°02'	22071	31	19°55'0"	8°17'	22143	72	1°51'6"	12°73'	22215	34	2°9'5"	16°61'	22287	33	21°42'0"	19°34'4"
22000	32	6°29'9"	4°18'	22072	34	21°76'0"	8°61'	22144	31	3°03'8"	12°77'	22216	26	8°52'4"	16°58'	22288	27	21°58'6"	19°25'6"
22001	34	6°98'8"	4°54'	22073	31	21°85'6"	8°55'	22145	45	3°35'3"	12°70'	22217	28	12°78'0"	16°77'	22289	34	21°58'8"	19°25'6"
22002	30	9°14'2"	4°02'	22074	43	21°95'5"	8°30'	22146	25	4°18'6"	12°50'	22218	31	14°02'8"	16°72'	22290	29	21°81'2"	19°59'1"
22003	30	10°38'4"	4°39'	22075	28	22°04'2"	8°98'	22147	47	4°29'4"	12°51'	22219	30	16°27'3"	16°01'	22291	29	22°22'6"	19°47'7"
22004	26	10°45'2"	4°58'	22076	51	23°24'0"	8°96'	22148	39	6°24'3"	12°35'	22220	34	18°95'2"	16°92'	22292	33	22°75'0"	19°00'2"
22005	32	12°82'0"	4°42'	22077	39	23°41'8"	8°99'	22149	39	6°50'8"	12°72'	22221	33	19°13'8"	16°86'	22293	43	24°88'1"	19°26'7"
22006	36	14°03'8"	4°46'	22078	34	23°60'7"	8°63'	22150	35	8°13'5"	12°03'	22222	29	20°22'8"	16°37'	22294	32	25°08'4"	19°82'8"
22007	33	18°55'5"	4°43'	22079	30	24°88'4"	8°72'	22151	31	9°37'6"	12°54'	22223	45	21°15'0"	16°02'	22295	35	25°14'8"	19°05'0"
22008	41	21°22'6"	4°03'	22080	37	0°12'2"	9°04'	22152	30	10°33'4"	12°64'	22224	27	25°19'2"	16°72'	22296	28	0°02'6"	20°00'7"
22009	28	21°36'2"	4°03'	22081	39	0°37'5"	9°38'	22153	33	11°16'0"	12°40'	22225	33	25°06'2"	16°14'	22297	46	3°31'2"	20°08'6"
22010	36	21°45'6"	4°03'	22082	40	4°31'4"	9°45'	22154	32	12°52'0"	12°28'	22226	33	1°12'2"	17°33'	22298	25	3°66'2"	20°75'1"
22011	31	21°53'6"	4°66'	22083	31	6°54'4"	9°53'	22155	50	12°55'9"	12°06'	22227	30	1°31'2"	17°13'	22299	30	4°66'2"	20°25'6"
22012	34	22°74'5"	4°77'	22084	30	8°84'1"	9°40'	22156	30	13°38'6"	12°65'	22228	47	8°11'0"	17°18'	22300	32	6°70'2"	20°35'4"
22013	42	25°56'4"	4°47'	22085	35	8°93'6"	9°71'	22157	44	14°42'4"	12°86'	22229	31	8°44'6"	17°24'	22301	34	8°63'4"	20°66'0"
22014	25	2°68'8"	5°72'	22086	41	8°98'2"	9°25'	22158	32	15°34'8"	12°10'	22230	36	10°15'8"	17°13'	22302	33	9°62'8"	20°31'4"
22015	32	8°56'1"	5°70'	22087	62	9°04'6"	9°28'	22159	42	15°60'5"	12°33'	22231	40	12°51'2"	17°05'	22303	28	9°97'5"	20°70'0"
22016	31	12°87'2"	5°05'	22088	45	9°16'9"	9°08'	22160	28	17°18'2"	12°89'	22232	39	14°94'6"	17°37'	22304	44	10°51'0"	20°63'0"
22017	30	14°42'0"	5°74'	22089	26	9°58'5"	9°62'	22161	30	17°60'1"	12°13'	22233	28	16°22'6"	17°19'	22305	40	13°90'9"	20°68'7"
22018	24	14°54'4"	5°30'	22090	41	11°05'5"	9°13'	22162	36	17°78'8"	12°07'	22234	30	16°64'9"	17°70'	22306	44	13°90'9"	20°68'7"
22019	27	14°65'5"	5°62'	22091	49	11°41'6"	9°30'	22163	25	23°77'1"	12°02'	22235	36	17°21'4"	17°30'	22307	27	14°87'1"	20°26'6"
22020	30	17°26'9"	5°41'	22092	51	11°63'8"	9°58'	22164	34	25°30'4"	12°08'	22236	31	18°97'0"	17°40'	22308	53	16°27'3"	20°37'9"
22021	36	18°02'4"	5°21'	22093	42	12°06'1"	9°20'	22165	30	0°03'3"	13°46'	22237	36	19°29'6"	17°59'	22309	26	17°66'0"	20°69'2"
22022	30	19°01'8"	5°27'	22094	42	13°61'1"	9°54'	22166	28	0°05'8"	13°41'	22238	30	20°79'8"	17°62'	22310	43	19°38'0"	20°07'4"
22023	37	20°12'5"	5°16'	22095	27	14°63'6"	9°26'	22167	29	0°21'8"	13°91'	22239	23	21°11'6"	17°95'	22311	31	21°77'5"	20°31'0"
22024	46	20°43'5"	5°25'	22096	34	15°49'4"	9°36'	22168	35	1°20'4"	13°82'	22240	38	23°22'0"	17°40'	22312	28	23°83'8"	20°77'6"
22025	29	21°12'2"	5°10'	22097	38	19°55'5"	9°48'	22169	41	2°10'6"	13°09'	22241	42	24°73'6"	17°95'	22313	121	25°55'4"	20°49'0"
22026	36	23°02'1"	5°25'	22098	42	20°76'5"	9°71'	22170	34	8°32'7"	13°42'	22242	32	25°40'0"	17°71'	22314	42	25°85'5"	20°82'9"
22027	40	24°91'2"	5°02'	22099	34	21°72'2"	9°18'	22171	28	9°28'2"	13°73'	22243	31	1°12'8"	18°14'	22315	57	2°84'2"	21°64'0"
22028	68	25°35'2"	5°16'	22100	33	21°82'8"	9°04'	22172	39	10°85'0"	13°78'	22244	35	1°48'5"	18°49'	22316	53	3°96'8"	21°22'4"
22029	31	4°28'0"	6°89'	22101	33	22°82'1"	9°11'	22173	32	12°63'9"	13°04'	22245	31	1°85'9"	18°12'	22317	30	4°93'0"	21°91'1"
22030	34	4°58'4"	6°28'	22102	30	23°19'2"	9°23'	22174	43	12°72'0"	13°60'	22246	23	2°32'9"	18°04'	22318	43	5°92'2"	21°52'7"
22031	30	5°97'4"	6°75'	22103	37	23°27'7"	9°04'	22175	48	13°08'4"	13°70'	22247	85	4°78'1"	18°74'	22319	140	5°97'8"	21°50'8"
22032	36	6°41'6"	6°60'	22104	44	23°30'0"	9°22'	22176	58	13°30'6"	13°65'	22248	35	5°36'8"	18°14'	22320	34	6°41'6"	21°65'8"
22033	32	8°31'8"	6°32'	22105	25	23°37'7"	9°06'	22177	32	15°71'2"	13°88'	22249	41	6°72'8"	18°94'	22321	54	7°95'6"	21°80'8"
22034	27	8°59'3"	6°30'	22106	33	24°47'2"	9°48'	22178	56	17°63'0"	13°26'	22250	49	7°02'8"	18°73'	22322	34	9°73'1"	21°66'0"
22035	26	9°36'8"	6°97'	22107	31	25°66'2"	9°74'	22179	33	18°76'5"	13°49'	22251	29	8°58'4"	18°02'	22323	28	9°93'3"	21°43'2"
22036	64	11°33'8"	6°04'	22108	28	1°58'2"	10°46'	22180	25	21°54'4"	13°34'	22252	25	8°52'4"	18°82'	22324	32	11°60'8"	21°96'0"
22037	42	12°03'4"	6°02'	22109	31	1°59'5"	10°41'	22181	35	23°76'0"	13°73'	22253	23	10°50'4"	18°09'	22325	29	15°10'3"	21°32'0"
22038	50	16°40'8"	6°68'	22110	36	4°29'6"	10°18'	22182	35	23°76'0"	13°22'	22254	30	10°74'8"	18°38'	22326	31	16°58'4"	21°28'9"
22039	31	18°09'2"	6°40'	22111	40	6°49'0"	10°35'	22183	28	1°42'2"	14°67'	22255	36	11°63'0"	18°06'	22327	28	20°28'4"	21°85'5"
22040	27	19°84'6"	6°21'	22112	49	7°39'8"	10°25'	22184	33	8°45'7"	14°83'	22256	28	14°38'0"	18°27'	22328	38	20°33'8"	21°64'0"
22041	32	21°46'6"	6°36'	22113	24	8°22'3"	10°84'	22185	30	9°10'2"	14°91'	22257	24	14°56'5"	18°54'	22329	34	20°61'5"	21°93'6"
22042	33	22°06'0"	6°58'	22114	66	9°08'8"	10°20'	22186	35	10°73'5"	14°56'	22258	37	14°06'8"	18°70'	22330	34	20°88'4"	21°56'0"
22043	31	22°74'5"	6°15'	22115	35	12°06'4"	10°18'	22187	35	11°36'0"	14°53'	22259	34	15°16'6"	18°02'	22331	37	22°55'8"	21°17'4"
22044	43	0°40'0"	7°53'	22116	29	16°85'2"	10°56'	22188	37	12°34'1"	14°26'	22260	45	15°45'7"	18°25'	22332	40	23°58'1"	21°00'0"
22045	57	2°23'5"	7°69'	22117	27	18°12'6"	11°31'	22189	28	12°44'2"	14°17'	22261	71	16°20'5"	18°89'	22333	24	1°07'8"	22°39'2"
22046	41	3°78'6"	7°62'	22118	115	21°12'6"	10°91'	22190	33	13°00'1"	14°50'	22262	47	17°32'5"	18°30'	22334	47	1°52'8"	22°54'8"
22047	47	4°44'9"	7°18'	22119	59	21°58'0"	10°38'	22191	33	13°26'9"	14°59'	22263	25	20°39'4"	18°79'	22335	46	2°12'0"	22°69'6"
22048	28	7°72'1"	7°62'	22120	33	21°61'6"	10°42'	22192	30	16°62'4"	14°50'	22264	20	21°04'9"	18°04'	22336	24	2°31'9"	22°28'9"
22049	31	8°12'0"	7°25'	22121	39	24°12'0"	10°80'	22193	25	17°60'5"	14°75'	22265	34	21°79'0"	18°80'	22337	31	4°08'6"	22°45'4"
22050	29	9°35'0"	7°15'	22122	29	24°25'7"	10°95'	22194	85	18°03'4"	14°45'	22266	28	22°07'0"	18°45'	22338	34	5°10'6"	22°70'9"
22051	34	11°15'5"	7°06'	22123	30	0°33'4"	11°70'	22195	28	18°50'8"	14°23'	22267	32	22°19'2"	18°47'	22339	27	5°14'6"	22°47'2"
22052	32	15°95'0"	7°45'	22124	48	2°18'0"	11°50'	22196	30	20°50'2"	14°62'	22268	32	1°34'0"	19°10'	22340	30	5°50'1"	22°25'5"
22053	32	18°18'2"	7°87'	22125	33	2°41'8"	11°75'	22197	36	22°16'0"	14°32'	22269	34	4°22'0"	19°72'	22341	30	7°05'0"	22°53'2"
22054	28	20°94'2"	7°35'	22126	35	3°8'0"	11°19'	22198	24	25°91'4"	14°51'	22270	30	6°02'5"	19°93'	22342	55	9°77'4"	22°58'0"
22055	35	21°79'3"	7°45'	22127	38	4°08'4"	11°59'	22199	26	1°02'4"	15°62'	22271	29	6°67'3"	19°13'	22343	32	19°39'7"	22°67'5"
22056	37	23°72'8"	7°42'	22128	33	5°38'0"	11°16'	22200	24	3°42'9"	15°38'	22272	29	7°17'0"	19°60'	22344	31	21°51'4"	22°49'4"
22057	32	23°78'2"	7°38'	22129	41	6°40'0"	11°02'	22201	44	4°32'8"	15°19'	22273	6						

22356	25	15° 8' 8"	23° 7' 8"	22457	10	3° 6' 14"	0° 9' 37"	22529	25	19° 8' 71"	1° 5' 33"	22601	31	8° 3' 88"	3° 7' 76"	22673	23	19° 6' 28"	4° 8' 89"
22357	32	16° 2' 92"	23° 3' 93"	22458	36	4° 0' 02"	0° 0' 94"	22530	35	20° 4' 18"	1° 9' 95"	22602	27	9° 6' 66"	3° 8' 00"	22674	18	19° 8' 49"	4° 6' 02"
22358	38	18° 2' 28"	23° 7' 40"	22459	12	4° 0' 50"	0° 5' 75"	22531	28	20° 5' 52"	1° 6' 34"	22603	28	9° 6' 81"	3° 2' 94"	22675	30	20° 2' 09"	4° 1' 92"
22359	24	19° 1' 42"	23° 5' 38"	22460	10	4° 2' 19"	0° 3' 11"	22532	14	20° 9' 32"	1° 9' 48"	22604	18	10° 1' 12"	3° 1' 35"	22676	34	21° 2' 19"	4° 8' 84"
22360	46	19° 2' 09"	23° 6' 76"	22461	13	4° 8' 94"	0° 6' 44"	22533	29	21° 7' 80"	1° 8' 56"	22605	17	10° 5' 59"	3° 5' 55"	22677	13	21° 9' 20"	4° 6' 80"
22361	41	22° 2' 08"	23° 6' 63"	22462	12	5° 6' 64"	0° 5' 32"	22534	10	22° 6' 32"	1° 4' 22"	22606*	47	10° 8' 90"	3° 0' 66"	22678	13	23° 3' 36"	4° 7' 77"
22362	31	0° 8' 84"	24° 6' 48"	22463	11	6° 1' 00"	0° 1' 38"	22535	18	24° 4' 03"	1° 8' 00"	22607	30	11° 1' 08"	3° 1' 30"	22679	22	23° 6' 33"	4° 8' 60"
22363	32	6° 0' 66"	24° 4' 62"	22464	31	7° 1' 62"	0° 7' 92"	22536	20	24° 5' 52"	1° 0' 30"	22608	15	11° 2' 42"	3° 0' 80"	22680	31	0° 8' 58"	5° 8' 74"
22364	32	6° 1' 75"	24° 2' 12"	22465	12	7° 3' 88"	0° 7' 71"	22537	31	24° 5' 78"	1° 2' 20"	22609	19	11° 3' 99"	3° 7' 21"	22681	35	2° 7' 41"	5° 1' 64"
22365	30	7° 2' 48"	24° 2' 18"	22466	18	7° 4' 70"	0° 6' 18"	22538	22	25° 1' 68"	1° 5' 32"	22610	33	11° 6' 36"	3° 9' 74"	22682*	73	3° 1' 78"	5° 3' 03"
22366	27	7° 2' 58"	24° 6' 58"	22467	13	7° 4' 72"	0° 2' 81"	22539	16	25° 2' 49"	1° 5' 70"	22611	28	12° 8' 34"	3° 9' 74"	22683	11	3° 4' 25"	5° 3' 34"
22367	26	7° 6' 74"	24° 7' 42"	22468*	49	7° 9' 74"	0° 6' 26"	22540	12	25° 6' 66"	1° 8' 80"	22612	11	14° 2' 55"	3° 9' 71"	22684	10	3° 5' 23"	5° 3' 80"
22368	28	8° 1' 83"	24° 4' 25"	22469	12	8° 1' 19"	0° 0' 78"	22541	36	25° 6' 69"	1° 3' 60"	22613	48	14° 6' 58"	3° 9' 04"	22685	10	4° 4' 58"	5° 6' 84"
22369	31	9° 9' 36"	24° 0' 84"	22470	37	8° 1' 52"	0° 2' 48"	22542	23	2° 4' 99"	2° 2' 20"	22614	12	14° 8' 51"	3° 6' 36"	22686	11	4° 7' 99"	5° 8' 60"
22370	25	10° 5' 70"	24° 2' 97"	22471	16	8° 3' 65"	0° 7' 64"	22543	24	2° 7' 97"	2° 9' 32"	22615	23	15° 1' 42"	3° 2' 26"	22687	33	4° 6' 14"	5° 3' 30"
22371	34	11° 4' 74"	24° 8' 84"	22472	22	8° 4' 86"	0° 2' 29"	22544	25	3° 1' 09"	2° 5' 43"	22616	31	15° 6' 08"	3° 5' 94"	22688	22	7° 4' 52"	5° 9' 25"
22372	25	12° 7' 09"	24° 6' 76"	22473	11	8° 6' 09"	0° 5' 61"	22545	28	3° 3' 46"	2° 8' 10"	22617	12	16° 0' 94"	3° 6' 24"	22689	17	9° 1' 60"	5° 5' 50"
22373	33	12° 7' 86"	24° 4' 48"	22474	27	8° 7' 78"	0° 4' 42"	22546	10	4° 0' 65"	2° 5' 26"	22618	21	16° 6' 65"	3° 2' 24"	22690	12	9° 2' 42"	5° 2' 04"
22374	30	13° 1' 08"	24° 4' 00"	22475	33	8° 8' 16"	0° 2' 52"	22547	10	4° 1' 33"	2° 1' 66"	22619	13	17° 6' 64"	3° 8' 62"	22691	17	9° 2' 75"	5° 7' 09"
22375	33	13° 1' 89"	24° 1' 10"	22476	18	8° 9' 80"	0° 1' 64"	22548	33	4° 2' 30"	2° 1' 85"	22620	23	17° 9' 86"	3° 8' 54"	22692	17	9° 4' 62"	5° 1' 08"
22376	35	13° 2' 50"	24° 9' 91"	22477	23	10° 4' 48"	0° 0' 58"	22549	30	5° 2' 21"	2° 6' 06"	22621	14	18° 8' 03"	3° 9' 55"	22693	30	10° 5' 92"	5° 7' 84"
22377	64	16° 6' 73"	24° 6' 15"	22478	24	11° 7' 40"	0° 1' 70"	22550	19	6° 1' 18"	2° 6' 02"	22622	13	19° 3' 83"	3° 8' 91"	22694	10	11° 7' 44"	5° 2' 70"
22378	60	17° 1' 50"	24° 7' 02"	22479	12	12° 0' 40"	0° 6' 14"	22551	21	6° 4' 00"	2° 6' 20"	22623	13	19° 5' 10"	3° 0' 20"	22695	17	11° 9' 74"	5° 0' 50"
22379	27	17° 2' 60"	24° 6' 50"	22480	11	13° 8' 55"	0° 5' 36"	22552	23	6° 5' 22"	2° 6' 26"	22624	10	19° 8' 06"	3° 7' 81"	22696*	69	12° 3' 21"	4° 4' 80"
22380	28	17° 7' 88"	24° 2' 63"	22481*	65	14° 7' 20"	0° 1' 30"	22553	23	7° 2' 90"	2° 3' 76"	22625	14	20° 1' 65"	3° 9' 46"	22697	13	12° 3' 21"	5° 9' 24"
22381	27	18° 8' 58"	24° 6' 28"	22482	20	14° 8' 31"	0° 5' 27"	22554	38	8° 3' 70"	2° 6' 07"	22626	16	20° 3' 14"	3° 0' 60"	22698	11	14° 5' 34"	5° 0' 35"
22382	33	19° 0' 91"	24° 8' 82"	22483*	89	15° 0' 00"	0° 3' 04"	22555	20	9° 3' 89"	2° 1' 80"	22627	15	25° 5' 62"	3° 7' 64"	22699	13	16° 7' 00"	5° 9' 65"
22383	37	19° 3' 58"	24° 0' 14"	22484	14	15° 8' 22"	0° 5' 58"	22556*	50	10° 0' 15"	2° 9' 78"	22628	34	23° 7' 41"	3° 1' 80"	22700	12	16° 7' 49"	5° 3' 55"
22384	34	21° 6' 42"	24° 2' 39"	22485	31	16° 0' 11"	0° 4' 66"	22557	18	10° 8' 48"	2° 7' 98"	22629	21	24° 2' 04"	3° 4' 22"	22701	13	17° 1' 34"	5° 1' 56"
22385	30	23° 4' 36"	24° 2' 61"	22486	27	16° 4' 42"	0° 5' 09"	22558	14	12° 3' 46"	2° 1' 26"	22630	21	24° 7' 19"	3° 9' 79"	22702	11	17° 3' 44"	5° 6' 88"
22386	40	23° 7' 54"	24° 4' 36"	22487	18	16° 4' 52"	0° 6' 46"	22559	13	13° 5' 96"	2° 9' 60"	22631	29	25° 0' 56"	3° 4' 97"	22703	17	18° 0' 80"	5° 9' 10"
22387	31	24° 6' 73"	24° 5' 59"	22488	10	17° 5' 18"	0° 2' 12"	22560	29	13° 8' 30"	2° 2' 26"	22632	30	25° 2' 77"	3° 1' 74"	22704	12	18° 3' 02"	5° 6' 78"
22388	31	25° 4' 36"	24° 7' 51"	22489	12	17° 7' 00"	0° 1' 90"	22561	15	13° 9' 30"	2° 0' 44"	22633	11	0° 1' 02"	4° 6' 73"	22705	32	18° 5' 50"	5° 1' 50"
22389	43	25° 7' 10"	24° 3' 10"	22490	19	18° 1' 50"	0° 8' 70"	22562	10	14° 0' 90"	2° 5' 18"	22634	28	0° 5' 74"	4° 8' 96"	22706	28	18° 7' 00"	5° 3' 90"
22390	43	0° 4' 55"	25° 3' 11"	22491	25	18° 4' 30"	0° 0' 81"	22563	38	14° 2' 04"	2° 0' 52"	22635	30	0° 7' 60"	4° 0' 13"	22707	14	18° 7' 32"	5° 5' 21"
22391	28	2° 7' 01"	25° 8' 38"	22492	14	19° 1' 66"	0° 7' 04"	22564	23	14° 4' 84"	2° 3' 77"	22636	10	2° 1' 05"	4° 5' 94"	22708	13	19° 2' 40"	5° 3' 36"
22392	33	4° 8' 12"	25° 8' 17"	22493	13	20° 2' 40"	0° 4' 72"	22565	20	15° 4' 10"	2° 5' 99"	22637	11	2° 1' 02"	4° 3' 28"	22709	10	19° 3' 15"	5° 1' 04"
22393	32	4° 8' 82"	25° 3' 68"	22494	12	20° 2' 79"	0° 1' 34"	22566	13	15° 0' 82"	2° 4' 80"	22638	10	2° 5' 92"	4° 4' 18"	22710	47	20° 3' 44"	5° 5' 41"
22394	28	8° 3' 35"	25° 7' 40"	22495	10	20° 6' 46"	0° 4' 26"	22567	20	15° 8' 24"	2° 4' 11"	22639	34	3° 3' 90"	4° 5' 78"	22711	43	21° 5' 65"	5° 8' 22"
22395	26	14° 1' 70"	25° 8' 42"	22496	19	21° 2' 36"	0° 3' 08"	22568	24	16° 2' 78"	2° 5' 14"	22640	10	3° 7' 90"	4° 2' 20"	22712	33	24° 5' 98"	5° 9' 54"
22396	35	15° 6' 55"	25° 0' 20"	22497*	47	23° 3' 17"	0° 5' 32"	22569	34	16° 3' 21"	2° 0' 50"	22641	18	4° 0' 10"	4° 0' 90"	22713	13	24° 7' 74"	5° 1' 93"
22397	34	16° 2' 80"	25° 2' 08"	22498	10	23° 4' 24"	0° 7' 32"	22570	17	16° 4' 64"	2° 5' 90"	22642	14	4° 3' 28"	4° 2' 76"	22714	10	4° 0' 92"	6° 4' 10"
22398	28	17° 1' 60"	25° 1' 13"	22499	29	23° 8' 30"	0° 0' 40"	22571	16	16° 6' 38"	2° 0' 68"	22643	17	5° 0' 10"	4° 0' 67"	22715	22	0° 5' 84"	6° 3' 06"
22399	33	18° 8' 69"	25° 2' 04"	22500	31	24° 8' 82"	0° 0' 73"	22572	10	16° 8' 20"	2° 8' 92"	22644	20	5° 1' 22"	4° 8' 52"	22716	12	3° 9' 57"	6° 4' 90"
22400	29	24° 6' 74"	25° 0' 02"	22501	19	25° 6' 80"	0° 4' 77"	22573	13	17° 2' 80"	2° 8' 94"	22645	17	8° 5' 09"	4° 1' 70"	22717	32	4° 0' 30"	6° 4' 10"
				22502	18	0° 0' 94"	1° 1' 50"	22574	26	17° 2' 98"	2° 5' 01"	22646*	60	8° 5' 90"	4° 1' 38"	22718	28	4° 2' 34"	6° 7' 40"
				22503	16	0° 1' 71"	1° 7' 10"	22575	35	18° 0' 82"	2° 0' 20"	22647*	44	8° 8' 52"	4° 7' 54"	22719	18	4° 3' 41"	6° 1' 92"
				22504	10	0° 2' 27"	1° 7' 43"	22576	21	18° 5' 07"	2° 7' 27"	22648	13	9° 5' 90"	4° 1' 38"	22720	17	4° 5' 18"	6° 2' 08"
				22505	12	1° 8' 78"	1° 3' 27"	22577	13	19° 5' 94"	2° 4' 33"	22649	10	10° 2' 94"	4° 9' 65"	22721	16	4° 6' 59"	6° 2' 00"
				22506*	46	2° 2' 95"	1° 8' 60"	22578	10	19° 6' 31"	2° 0' 60"	22650*	65	10° 3' 26"	4° 3' 86"	22722	20	5° 6' 32"	6° 5' 44"
				22507	34	3° 2' 40"	1° 6' 32"	22579	17	22° 3' 39"	2° 3' 54"	22651	27	10° 4' 42"	4° 8' 70"	22723	18	5° 0' 74"	6° 3' 98"
				22508	21	3° 2' 83"	1° 9' 80"	22580	11	22° 6' 04"	2° 6' 07"	22652	10	11° 9' 66"	4° 8' 70"	22724	19	6° 1' 02"	6° 9' 31"
				22509	14	4° 4' 36"	1° 7' 50"	22581	20	23° 4' 85"	2° 5' 84"	22653	14	12° 1' 95"	4° 9' 35"	22725	23	6° 7' 24"	6° 4' 22"
				22510	25	4° 6' 20"	1° 3' 56"	22582	34	23° 5' 76"	2° 5' 14"	22654*	30	12° 7' 49"	4° 1' 73"	22726	10	6° 7' 58"	6° 5' 99"
				22511	28	5° 3' 61"	1° 3' 82"	22583	10	23° 7' 85"	2° 7' 52"	22655	16	14° 1' 14"	4° 7' 20"	22727	13	6° 7' 62"	6° 3' 00"
				22512	15	5° 8' 34"	1° 6' 75"	22584	11	23° 8' 80"	2° 9' 53"	22656	15	14° 2' 72"	4° 4				

22745	20	15.660	6.924	22817	10	1.230	8.732	22889	28	10.202	9.006	22961	19	25.676	10.157	23033	12	23.522	12.404
22746	14	15.820	6.700	22818	10	1.324	8.868	22890	17	10.266	9.224	22962	30	1.174	11.891	23034	22	24.070	12.993
22747	28	16.404	6.626	22819	12	1.392	8.634	22891	11	11.091	9.474	22963	15	1.376	11.606	23035	24	24.083	12.156
22748	18	16.578	6.484	22820	30	1.462	8.784	22892	12	11.102	9.404	22964	78	1.904	11.811	23036	27	24.896	12.864
22749	18	16.674	6.816	22821	10	1.536	8.784	22893	9	11.959	9.445	22965	22	2.128	11.094	23037	25	25.048	12.116
22750	18	16.830	6.103	22822	26	2.738	8.861	22894	12	12.104	9.386	22966	13	3.014	11.880	23038	11	25.435	12.370
22751	13	16.902	6.658	22823	12	4.604	8.891	22895	11	12.138	9.954	22967	31	3.099	11.854	23039	12	25.479	12.694
22752	14	17.125	6.816	22824	25	5.092	8.389	22896	9	12.270	9.414	22968	13	3.103	11.970	23040	32	1.368	13.880
22753	13	17.540	6.590	22825	20	6.277	8.573	22897	10	12.453	9.302	22969	22	5.491	11.811	23041	14	1.594	13.234
22754	12	17.550	6.552	22826	26	6.521	8.802	22898	20	13.070	9.899	22970	14	7.060	11.854	23042	34	1.645	13.365
22755	13	17.792	6.526	22827	19	8.056	8.884	22899	14	13.150	9.482	22971	40	7.468	11.838	23043	14	2.048	13.384
22756	15	18.162	6.598	22828	40	8.182	8.724	22900	18	14.372	9.800	22972	24	7.530	11.041	23044	11	2.050	13.566
22757	30	18.795	6.094	22829	20	9.795	8.234	22901	33	14.406	9.787	22973	29	7.782	11.680	23045	10	2.155	13.346
22758	10	19.050	6.270	22830	28	9.979	8.534	22902	13	14.450	9.028	22974	10	8.300	11.550	23046	11	2.950	13.060
22759	10	19.254	6.526	22831	21	10.922	8.440	22903	10	16.008	9.276	22975	34	8.690	11.198	23047	17	3.505	13.068
22760	30	20.258	6.944	22832	21	10.995	8.256	22904	54	16.140	9.074	22976	17	13.360	11.704	23048	11	5.360	13.130
22761	14	23.562	6.253	22833	45	12.354	8.420	22905	14	16.250	9.240	22977	11	16.048	11.653	23049	11	6.960	13.774
22762	10	23.664	6.360	22834	17	12.698	8.000	22906	11	17.710	9.744	22978	31	17.794	11.511	23050	29	8.513	13.004
22763	14	23.854	6.304	22835	19	13.096	8.266	22907	12	18.088	9.810	22979	19	17.908	11.072	23051	11	9.344	13.646
22764	17	23.870	6.106	22836	10	14.164	8.758	22908	29	18.195	9.312	22980	11	18.839	11.235	23052	21	10.184	13.052
22765	10	24.492	6.410	22837	14	14.237	8.978	22909	50	18.408	9.848	22981	24	19.292	11.686	23053	11	10.236	13.255
22766	14	25.478	6.858	22838	10	14.543	8.906	22910	11	20.614	9.950	22982	35	19.466	11.962	23054	19	10.322	13.536
22767	12	25.954	6.620	22839	23	15.114	8.274	22911	13	21.093	9.274	22983	13	19.830	11.280	23055	9	10.461	13.532
22768	10	25.954	6.622	22840	12	15.204	8.076	22912	14	21.614	9.110	22984	18	20.168	11.270	23056	29	11.086	13.076
22769	32	1.576	7.564	22841	10	15.400	8.799	22913	14	22.825	9.366	22985	10	20.350	11.365	23057	22	12.099	13.416
22770	27	1.630	7.530	22842	19	15.638	8.639	22914	26	23.130	9.944	22986	28	20.460	11.518	23058	12	12.982	13.547
22771	10	1.677	7.434	22843	32	15.704	8.176	22915	32	23.162	9.908	22987	13	21.093	11.354	23059	27	13.190	13.595
22772	26	3.410	7.785	22844	29	16.834	8.324	22916	9	23.177	9.680	22988	14	23.086	11.590	23060	29	13.806	13.722
22773	23	4.110	7.300	22845	11	17.562	8.433	22917	23	23.550	9.880	22989	25	24.038	11.278	23061	13	14.808	13.134
22774	10	4.452	7.500	22846	37	17.659	8.210	22918	13	23.616	9.850	22990	22	24.456	11.008	23062	31	15.970	13.069
22775	40	5.211	7.147	22847	14	18.064	8.426	22919	30	23.704	9.396	22991	12	25.020	11.193	23063	10	16.795	13.994
22776	19	6.323	7.890	22848	29	18.238	8.200	22920	12	23.850	9.700	22992	18	25.593	11.222	23064	27	17.034	13.306
22777	10	7.438	7.384	22849	17	18.380	8.590	22921	18	24.183	9.402	22993	11	0.040	12.330	23065	20	18.426	13.038
22778	45	7.662	7.112	22850	10	18.731	8.850	22922	27	24.446	9.898	22994	16	0.840	12.964	23066	26	18.695	13.554
22779	28	7.831	7.504	22851	17	19.722	8.374	22923	10	24.578	9.246	22995	10	0.848	12.924	23067	19	19.188	13.356
22780	16	7.864	7.931	22852	60	20.374	8.030	22924	77	24.802	9.701	22996	10	1.294	12.804	23068	12	20.448	13.372
22781	21	8.130	7.770	22853	10	20.547	8.026	22925	18	0.074	10.982	22997	14	1.522	12.439	23069	9	20.898	13.707
22782	13	9.072	7.211	22854	11	21.256	8.829	22926	10	1.250	10.334	22998	16	1.650	12.105	23070	30	21.294	13.946
22783	32	9.354	7.225	22855	21	21.428	8.632	22927	35	1.985	10.221	22999	23	2.338	12.105	23071	11	21.398	13.484
22784	21	9.543	7.808	22856	12	21.430	8.180	22928	18	3.500	10.180	23000	30	3.182	12.102	23072	13	21.874	13.292
22785	29	10.162	7.100	22857	11	22.270	8.244	22929	26	4.060	10.485	23001	24	3.223	12.110	23073	10	22.178	13.200
22786	14	11.338	7.965	22858	10	22.700	8.498	22930	12	4.180	10.408	23002	13	3.603	12.704	23074	25	22.842	13.602
22787	13	13.464	7.018	22859	16	22.567	8.830	22931	38	4.460	10.090	23003	18	5.930	12.691	23075	12	22.940	13.724
22788	16	13.660	7.185	22860	14	22.750	8.380	22932	22	6.440	10.926	23004	14	6.147	12.566	23076	17	23.240	13.403
22789	14	13.779	7.862	22861	65	22.770	8.700	22933	24	6.456	10.373	23005	14	6.429	12.545	23077	22	23.250	13.206
22790	27	15.768	7.242	22862	14	22.780	8.369	22934	29	8.385	10.852	23006	24	7.920	12.952	23078	12	23.366	13.326
22791	18	15.954	7.188	22863	17	23.165	8.003	22935	33	8.663	10.226	23007	11	10.302	12.518	23079	16	24.282	13.360
22792	21	16.272	7.978	22864	12	24.528	8.272	22936	10	8.871	10.719	23008	47	11.830	12.070	23080	22	24.806	13.910
22793	10	17.014	7.556	22865	29	0.680	9.260	22937	29	10.638	10.878	23009	14	12.743	12.366	23081	10	25.076	13.321
22794	11	17.425	7.663	22866	16	1.054	9.970	22938	16	11.040	10.260	23010	19	14.046	12.150	23082	12	25.078	13.418
22795	10	17.494	7.740	22867	47	1.087	9.043	22939	21	12.726	10.934	23011	41	14.174	12.021	23083	27	25.872	13.660
22796	27	17.627	7.309	22868	50	1.102	9.040	22940	19	13.404	10.058	23012	12	15.337	12.310	23084	32	0.054	14.474
22797	11	17.656	7.294	22869	30	1.132	9.186	22941	15	13.464	10.104	23013	16	15.830	12.450	23085	10	0.600	14.122
22798	19	18.650	7.174	22870	12	1.186	9.250	22942	26	13.502	10.880	23014	9	16.080	12.329	23086	11	1.181	14.823
22799	10	18.838	7.910	22871	47	1.187	9.368	22943	135	15.070	10.009	23015	19	16.502	12.090	23087	13	1.372	14.463
22800	13	18.930	7.766	22872	14	1.236	9.209	22944	14	15.954	10.034	23016	27	17.471	12.309	23088	13	3.810	14.638
22801	11	19.176	7.750	22873	38	1.275	9.136	22945	10	16.560	10.466	23017	71	17.985	12.815	23089	15	4.534	14.910
22802	20	19.555	7.050	22874	27	2.332	9.626	22946	32	16.882	10.194	23018	25	18.296	12.296	23090	47	4.962	14.696
22803	18	19.850	7.297	22875	21	3.266	9.876	22947	14	17.200	10.561	23019	26	18.513	12.938	23091	21	8.004	14.332
22804	15	19.984	7.234	22876	17	3.960	9.050	22948	10	17.643	10.241	23020	32	18.598	12.374	23092	38	9.316	14.200
22805	34	21.404	7.303	22877	23	4.030	9.182	22949	43	17.718	10.801	23021	44	19.581	12.812	23093	65	9.814	14.076
22806	28	21.676	7.542	22878	14	4.072	9.910	22950	46	19.127	10.150	23022	15	19.620	12.858	23094	12	10.608	14.471
22807	14	23.176	7.860	22879	14	4.566	9.594	22951	13	19.642									

12-004	23105	10	19-801	14-382	23177	20	12-454	16-980	23249	60	10-346	18-347	23321	11	8-704	20-598	23393*	49	7-918	22-644
12-005	23106	15	21-356	14-738	23178	23	13-238	16-454	23250	30	10-528	18-918	23322	26	9-106	20-672	23394*	31	7-999	22-483
12-006	23107	12	21-662	14-700	23179	26	13-528	16-644	23251	14	11-777	18-160	23323	10	10-586	20-582	23395	22	8-460	22-771
12-007	23108	16	21-946	14-390	23180	10	13-807	16-515	23252	25	12-487	18-660	23324*	64	11-340	20-680	23396	14	9-673	22-332
12-008	23109	10	22-136	14-914	23181	9	14-956	16-250	23253	14	13-100	18-730	23325	26	12-634	20-458	23397	24	10-324	22-110
12-009	23110*	39	23-020	14-797	23182	27	14-992	16-107	23254	24	13-714	18-155	23326	28	12-980	20-664	23398	28	10-546	22-440
12-010	23111	9	23-490	14-646	23183	40	15-655	16-624	23255	12	14-486	18-684	23327	23	13-848	20-751	23399*	49	11-166	22-526
12-011	23112	18	23-552	14-218	23184	21	17-680	16-408	23256	10	14-590	18-209	23328*	59	14-614	20-814	23400	19	11-336	22-234
12-012	23113	14	23-648	14-101	23185	13	18-086	16-076	23257	25	15-410	18-538	23329	17	15-630	20-340	23401	12	11-650	22-072
12-013	23114	14	23-930	14-669	23186	15	18-685	16-690	23258	30	15-690	18-256	23330*	57	16-990	20-536	23402	13	12-728	22-146
12-014	23115	29	24-686	14-822	23187	17	19-240	16-148	23259	20	16-590	18-456	23331	10	17-056	20-840	23403	10	13-020	22-200
12-015	23116	9	24-835	14-945	23188	11	19-886	16-073	23260	13	18-361	18-870	23332	10	18-442	20-602	23404	34	13-344	22-726
12-016	23117	12	24-870	14-896	23189	10	20-066	16-802	23261	10	20-511	18-543	23333	12	20-106	20-015	23405	13	13-370	22-874
12-017	23118	20	25-806	14-855	23190	10	20-932	16-415	23262	10	20-588	18-543	23334	14	20-547	20-104	23406	43	13-652	22-132
12-018	23119	18	25-914	14-055	23191	19	21-120	16-820	23263	39	20-654	18-996	23335	17	20-590	20-722	23407	24	14-652	22-492
12-019	23120	22	0-338	15-848	23192	12	22-804	16-984	23264	14	20-736	18-668	23336	10	21-850	20-532	23408	11	18-454	22-078
12-020	23121	11	1-448	15-602	23193	25	22-928	16-963	23265	17	21-360	18-127	23337*	137	22-387	20-476	23409	28	18-494	22-660
12-021	23122	11	1-824	15-091	23194	10	23-087	16-276	23266	15	22-196	18-030	23338	10	25-168	20-550	23410	30	18-877	22-570
12-022	23123	19	2-631	15-936	23195	26	24-024	16-394	23267	13	23-044	18-475	23339	26	25-318	20-583	23411	22	19-504	22-146
12-023	23124	13	3-873	15-153	23196	36	24-076	16-560	23268	10	23-544	18-558	23340	12	25-349	20-070	23412	39	19-932	22-035
12-024	23125	25	4-484	15-760	23197	27	25-544	16-720	23269	17	24-116	18-622	23341	29	25-739	20-566	23413	17	20-176	22-128
12-025	23126	12	4-636	15-310	23198	13	25-960	16-649	23270	17	24-513	18-196	23342	32	0-496	21-324	23414	35	20-440	22-560
12-026	23127	14	5-075	15-658	23199	11	0-550	17-525	23271	17	24-562	18-361	23343*	59	1-516	21-145	23415	27	22-524	22-785
12-027	23128	10	5-222	15-708	23200	9	0-562	17-034	23272	17	25-003	18-260	23344	10	2-507	21-710	23416	47	22-932	22-743
12-028	23129	21	6-202	15-948	23201	36	1-133	17-548	23273	13	25-260	18-244	23345	11	3-010	21-697	23417	21	24-158	22-521
12-029	23130	14	6-344	15-850	23202	11	1-654	17-432	23274	23	25-340	18-800	23346	12	3-372	21-834	23418	34	24-820	22-846
12-030	23131	17	7-073	15-794	23203	15	2-226	17-660	23275	26	25-733	18-494	23347	26	4-467	21-956	23419	12	24-838	22-734
12-031	23132	23	7-240	15-203	23204	44	2-650	17-828	23276	16	0-156	19-630	23348	33	4-499	21-851	23420	12	25-390	22-592
12-032	23133	19	7-483	15-438	23205	13	2-741	17-386	23277	27	0-675	19-152	23349	14	4-688	21-574	23421	16	25-852	22-034
12-033	23134	11	7-636	15-008	23206	15	3-103	17-060	23278	12	0-864	19-325	23350	15	5-640	21-668	23422	40	0-248	23-215
12-034	23135	51	8-196	15-358	23207	27	3-316	17-844	23279	12	1-540	19-700	23351	14	6-791	21-035	23423	17	4-744	23-242
12-035	23136	14	8-850	15-140	23208	33	4-608	17-327	23280*	41	2-804	19-400	23352	12	6-914	21-566	23424	19	6-374	23-784
12-036	23137	12	9-644	15-576	23209	19	4-779	17-290	23281	24	3-072	19-182	23353	25	7-093	21-902	23425	12	6-654	23-200
12-037	23138	22	9-900	15-720	23210	18	7-216	17-488	23282	28	3-072	19-182	23354	10	7-413	21-555	23426	13	6-700	23-627
12-038	23139	10	10-914	15-600	23211	25	9-065	17-769	23283	9	3-500	19-700	23355	10	7-672	21-976	23427	22	11-756	23-400
12-039	23140	14	11-390	15-401	23212	40	9-400	17-774	23284	11	4-660	19-479	23356	15	8-084	21-378	23428	14	12-635	23-250
12-040	23141	11	12-339	15-074	23213	11	10-271	17-677	23285	12	4-842	19-021	23357	19	8-885	21-084	23429	11	12-710	23-640
12-041	23142	17	14-240	15-076	23214	34	10-462	17-637	23286	10	4-891	19-169	23358	17	8-900	21-500	23430	10	14-128	23-368
12-042	23143	14	16-083	15-140	23215	32	12-896	17-848	23287	30	4-900	19-598	23359	28	9-964	21-094	23431	9	14-658	23-822
12-043	23144	11	16-927	15-210	23216	12	12-934	17-825	23288	10	4-972	19-300	23360*	59	10-987	21-118	23432	10	15-012	23-544
12-044	23145	40	17-160	15-824	23217	28	12-980	17-828	23289	20	6-715	19-294	23361	25	11-134	21-923	23433	23	17-090	23-700
12-045	23146	12	17-180	15-820	23218	12	13-581	17-075	23290	43	7-174	19-062	23362	10	11-592	21-055	23434	20	17-590	23-667
12-046	23147	20	17-950	15-313	23219	26	13-701	17-203	23291	12	8-216	19-065	23363*	131	12-906	21-218	23435	29	17-815	23-456
12-047	23148	13	18-468	15-745	23220	14	15-358	17-506	23292	10	8-222	19-984	23364	9	13-102	21-596	23436	23	18-732	23-167
12-048	23149	21	19-340	15-908	23221	14	15-408	17-936	23293	42	8-384	19-314	23365	29	14-090	21-314	23437	20	19-324	23-720
12-049	23150	35	19-346	15-207	23222	9	16-444	17-350	23294	9	10-072	19-110	23366	14	14-344	21-766	23438*	91	19-450	23-178
12-050	23151	26	19-556	15-010	23223	10	18-856	17-732	23295	25	12-530	19-310	23367	10	14-900	21-137	23439	16	19-460	23-800
12-051	23152	10	19-951	15-976	23224	26	18-964	17-490	23296	21	14-210	19-636	23368	30	15-427	21-361	23440	25	19-844	23-730
12-052	23153	16	20-496	15-115	23225	12	19-096	17-990	23297	19	15-114	19-956	23369	19	16-014	21-767	23441*	165	20-405	23-217
12-053	23154	12	20-800	15-340	23226	10	20-434	17-194	23298	20	15-599	19-451	23370	20	16-340	21-366	23442	10	20-740	23-758
12-054	23155	10	21-104	15-224	23227	10	20-500	17-425	23299	26	17-346	19-934	23371	10	17-165	21-754	23443	20	20-888	23-940
12-055	23156	22	21-978	15-560	23228	11	21-501	17-433	23300	38	17-920	19-487	23372	35	17-424	21-256	23444	14	22-255	23-446
12-056	23157	12	22-276	15-730	23229	24	22-368	17-373	23301	25	18-188	19-366	23373	13	17-722	21-145	23445	24	22-819	23-741
12-057	23158	10	23-828	15-656	23230	10	22-560	17-451	23302	30	18-634	19-670	23374	13	19-100	21-615	23446	15	23-822	23-842
12-058	23159	15	24-381	15-068	23231	22	22-724	17-532	23303	22	19-146	19-431	23375	36	19-958	21-036	23447	11	24-262	23-780
12-059	23160	24	25-366	15-421	23232	31	23-914	17-200	23304	15	20-150	19-178	23376	21	20-040	21-790	23448	10	24-340	23-026
12-060	23161	11	2-167	16-565	23233	20	25-370	17-459	23305	40	21-888	19-060	23377	21	20-596	21-010	23449	23	24-745	23-600
12-061	23162	19	2-800	16-088	23234	13	25-782	17-004	23306	13	22-422	19-474	23378	31	20-957	21-661	23450	32	25-284	23-768
12-062	23163	13	3-200	16-354	23235	10	0-088	18-6												



R.A. 7 <sup>h</sup> 28 <sup>m</sup>				R.A. 7 <sup>h</sup> 28 <sup>m</sup>			
Plate 2229; 1925 Mar. 16.				Plate 2229; 1925 Mar. 16.			
Provisional Constants.				Provisional Constants.			
A B C				A B C			
+0.0103 +0.0037 -0.4474				+0.0103 +0.0037 -0.4474			
D E F				D E F			
-0.0314 +0.0086 -0.0750				-0.0314 +0.0086 -0.0750			
Mag. = 16.5 - 0.94√d				Mag. = 16.5 - 0.94√d			
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23465	26	7.790	24.656	23506	11	10.624	24.488
23466	51	8.146	24.040	23507	16	10.697	24.367
23467	17	8.376	24.010	23508	16	10.730	24.274
23468	15	8.507	24.764	23509	20	10.988	24.550
23469	23	8.776	24.250	23510	16	11.040	24.502
23470	13	8.784	24.960	23511	13	11.215	24.630
23471	21	9.268	24.995	23512	14	11.270	24.130
23472	34	9.592	24.424	23513	31	11.494	24.902
23473	11	10.624	24.488	23514	30	12.681	24.960
23474	16	10.697	24.367	23515	12	12.789	24.851
23475	16	10.730	24.274	23516	18	14.254	24.800
23476	20	10.988	24.550	23517	17	14.516	24.489
23477	16	11.040	24.502	23518	29	15.125	24.292
23478	13	11.215	24.630	23519	12	15.552	24.404
23479	14	11.270	24.130	23520	25	16.840	24.791
23480	31	11.494	24.902	23521	28	17.430	24.004
23481	30	12.681	24.960	23522	28	17.541	24.200
23482	12	12.789	24.851	23523	14	18.238	24.243
23483	18	14.254	24.800	23524	34	18.336	24.669
23484	17	14.516	24.489	23525	38	18.500	24.600
23485	29	15.125	24.292	23526	12	19.082	24.366
23486	12	15.552	24.404	23527	13	19.804	24.166
23487	25	16.840	24.791	23528	18	21.880	24.082
23488	28	17.430	24.004	23529	14	21.944	24.321
23489	28	17.541	24.200	23530	13	22.448	24.840
23490	14	18.238	24.243	23531	29	23.110	24.922
23491	34	18.336	24.669	23532	14	25.902	24.720
23492	38	18.500	24.600	23533	13	25.975	24.675
23493	12	19.082	24.366	23534	23	2.638	25.140
23494	13	19.804	24.166	23535	14	3.305	25.417
23495	18	21.880	24.082	23536	36	4.258	25.507
23496	14	21.944	24.321	23537	28	5.804	25.036
23497	13	22.448	24.840	23538	37	7.460	25.530
23498	29	23.110	24.922	23539	11	7.866	25.090
23499	14	25.902	24.720	23540	21	8.799	25.656
23500	13	25.975	24.675	23541	17	9.323	25.120
23501	23	2.638	25.140	23542	10	9.594	25.174
23502	14	3.305	25.417	23543	24	10.488	25.415
23503	36	4.258	25.507	23544	13	10.488	25.342
23504	28	5.804	25.036	23545	16	10.958	25.716
23505	14	7.460	25.530	23546	10	11.111	25.120
23506	11	7.866	25.090	23547	25	12.050	25.710
23507	21	8.799	25.656	23548	16	14.282	25.311
23508	17	9.323	25.120	23549	17	14.601	25.152
23509	10	9.594	25.174	23550	17	14.936	25.280
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23512	16	10.958	25.716	23553	14	18.366	25.069
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23514	25	12.050	25.710	23555	13	21.200	25.451
23515	16	14.282	25.311	23556	16	23.580	25.530
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23518	20	15.576	25.030	23559	21	24.764	25.985
23519	27	16.646	25.890	23560	45	15.398	1.458
23520	14	18.366	25.069	23561	46	15.548	1.660
23521	13	19.850	25.323	23562	27	18.420	1.420
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23824	48	20-176	9-330	23896	32	10-050	12-474	23968	28	5-302	15-342	24040	33	13-678	18-480	24112	29	20-148	20-020
23825	40	20-520	9-101	23897	54	11-116	12-013	23969	40	7-734	15-684	24041	28	13-898	18-929	24113	73	21-975	20-320
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23828	41	21-908	9-636	23900	28	15-328	12-636	23972	26	9-701	15-830	24044	27	14-708	18-508	24116	36	24-878	20-414
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23830	29	23-476	9-884	23902	27	15-526	12-448	23974	35	16-840	15-046	24046	48	16-532	18-770	24118	44	3-754	21-590
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23837	27	0-670	10-898	23909	30	24-147	12-643	23981	26	24-114	15-080	24053	57	20-010	18-680	24125	28	9-702	21-440
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23846	28	5-712	10-024	23918	23	7-358	13-774	23990	47	6-632	16-477	24062	37	1-432	19-629	24134	26	15-960	21-926
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23865	30	24-282	10-984	23937	108	23-060	13-760	24009	32	24-922	16-564	24081	100	19-545	19-647	24153	27	9-627	22-365
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23877	26	13-161	11-250	23949	31	19-326	14-992	24021	34	11-080	17-515	24093	157	0-052	20-864	24165	31	18-199	22-740
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23881	30	19-616	11-038	23953	36	22-848	14-022	24025	27	20-532	17-128	24097	36	3-878	20-418	24169	31	20-134	22-162
23882	44	20-120	11-336	23954	32	23-716	14-560	24026	46	20-646	17-089	24098	28	5-276	20-108	24170	28	20-150	22-664
23883	20	20-302	11-622	23955	21	24-187	14-936	24027	22	21-025	17-836	24099	37	7-					



24182	32	2.467	23.958	24356	25	18.806	2.100	24428	27	15.876	6.048	24500*	86	18.398	9.144
24183	42	2.528	23.200	24357	27	19.310	2.407	24429	28	16.146	6.276	24501	52	19.034	9.526
24184	35	3.238	23.924	24358	28	21.274	2.400	24430	21	16.962	6.750	24502	96	19.754	9.866
24185	34	3.761	23.289	24359	31	22.610	2.798	24431	28	17.522	6.504	24503	24	21.058	9.401
24186	38	4.838	23.666	24360	29	22.780	2.211	24432*	75	19.690	6.986	24504	20	21.121	9.380
24187	36	5.176	23.778	24361	30	22.953	2.164	24433	30	20.514	6.543	24505	33	21.851	9.399
24188	32	9.688	23.666	24362	41	23.162	2.254	24434	24	22.386	6.166	24506	23	22.094	9.998
24189*	77	10.558	23.630	24363	29	1.620	3.940	24435	26	22.667	6.096	24507	24	23.258	9.760
24190	26	11.938	23.537	24364	27	2.006	3.872	24436	45	23.680	6.878	24508	23	24.164	9.071
24191	27	13.115	23.552	24365	28	2.194	3.222	24437	23	1.750	7.763	24509	34	24.240	9.805
24192	34	14.879	23.842	24366	24	2.737	3.665	24438	21	1.815	7.106	24510	27	25.246	9.394
24193	40	15.870	23.446	24367	23	4.246	3.906	24439	22	1.981	7.176	24511	26	5.309	10.118
24194	38	17.196	23.752	24368	27	4.671	3.190	24440	44	3.661	7.812	24512	26	6.356	10.446
24195	32	17.978	23.424	24369	42	5.302	3.302	24441	30	4.624	7.464	24513	49	6.666	10.804
24196	25	18.647	23.283	24370	30	6.321	3.348	24442	47	8.802	7.010	24514	54	6.826	10.030
24197	26	19.372	23.740	24371	23	7.925	3.472	24443*	89	7.175	7.964	24515	28	11.594	10.480
24198	24	19.744	23.590	24372	29	11.540	3.884	24444	24	10.844	7.368	24516*	96	12.760	10.536
24199	48	20.080	23.348	24373	22	12.020	3.367	24445	32	12.222	7.469	24517	33	14.065	10.310
24200	48	20.119	23.812	24374	24	12.537	3.926	24446	40	12.261	7.850	24518	45	17.310	10.181
24201	33	20.219	23.832	24375	29	12.965	3.692	24447	26	15.100	7.479	24519	28	18.958	10.240
24202	30	21.678	23.170	24376	46	14.940	3.959	24448	27	16.192	7.575	24520	37	22.389	10.394
24203	33	23.243	23.666	24377	20	19.046	3.408	24449	27	18.110	7.510	24521	33	23.446	10.250
24204	49	23.979	23.602	24378	22	19.712	3.400	24450	31	18.866	7.130	24522	34	24.068	10.631
24205	24	24.103	23.121	24379	23	19.934	3.554	24451	23	18.976	7.760	24523	41	24.536	10.356
24206	29	0.540	24.122	24380	26	20.136	3.941	24452	22	19.088	7.632	24524	23	25.171	11.424
24207	42	3.007	24.114	24381	26	22.226	3.381	24453	35	22.978	7.340	24525	30	2.976	11.900
24208	80	3.403	24.308	24382	29	23.645	3.468	24454*	75	23.790	7.700	24526	29	5.710	11.242
24209	36	5.814	24.106	24383	43	24.054	3.944	24455	57	6.388	8.858	24527	28	6.339	11.688
24210	30	6.724	24.106	24384	37	24.287	3.188	24456	37	7.378	8.316	24528	35	7.303	11.790
24211	20	7.329	24.984	24385	40	25.800	3.310	24457	60	7.820	8.542	24529	26	8.599	11.274
24212	26	7.561	24.977	24386	30	2.970	4.134	24458	56	8.280	8.781	24530	29	8.687	11.746
24213	29	7.800	24.730	24387	24	3.423	4.290	24459	22	8.319	8.177	24531	27	10.620	11.600
24214	27	10.674	24.315	24388	32	3.998	4.474	24460	21	8.800	8.762	24532	30	11.196	11.068
24215	27	10.852	24.350	24389	26	5.024	4.460	24461	26	8.918	8.185	24533	25	18.600	11.470
24216	30	14.214	24.549	24390	33	8.333	4.062	24462	28	10.070	8.676	24534*	62	19.200	11.993
24217	37	14.941	24.305	24391	31	10.836	4.550	24463	19	12.471	8.610	24535	55	21.167	11.330
24218	23	15.009	24.393	24392	29	14.746	4.560	24464	35	14.023	8.955	24536*	78	21.188	11.325
24219	44	15.350	24.602	24393	26	15.339	4.300	24465	24	14.056	8.780	24537	23	21.378	11.400
24220	23	17.308	24.345	24394	31	16.854	4.084	24466	23	14.057	8.542	24538*	102	21.960	11.900
24221	34	17.500	24.096	24395	25	20.118	4.737	24467	22	14.514	8.316	24539	32	22.656	11.844
24222	50	18.960	24.370	24396	27	22.672	4.810	24468	21	14.772	8.314	24540	25	23.870	11.380
24223	60	19.356	24.770	24397	27	22.171	4.066	24469	25	14.880	8.184	24541	24	24.577	11.470
24224	38	20.567	24.532	24398	25	23.088	4.886	24470	20	14.950	8.118	24542*	111	0.836	12.104
24225	32	22.336	24.644	24399	32	23.551	4.792	24471	49	15.134	8.300	24543	24	1.725	12.579
24226	56	24.252	24.626	24400	27	25.064	4.810	24472	29	16.258	8.881	24544	42	1.978	12.630
24227	46	24.790	24.448	24401	34	25.601	4.884	24473	24	16.472	8.442	24545	45	3.129	12.286
24228	25	25.958	24.060	24402	32	2.496	5.871	24474	33	16.728	8.127	24546	29	4.978	12.082
24229	34	8.848	25.300	24403	44	3.876	5.780	24475	26	16.864	8.416	24547	30	5.474	12.238
24230	50	1.416	25.945	24404	21	3.968	5.834	24476	33	17.029	8.146	24548*	77	7.066	12.920
24231	25	3.640	25.060	24405	29	3.968	5.270	24477	32	17.382	8.494	24549	40	7.409	12.066
24232	30	6.452	25.915	24406	30	6.404	5.332	24478	20	17.660	8.686	24550	26	8.670	12.978
24233	26	6.743	25.358	24407	21	9.276	5.942	24479	35	21.880	8.056	24551	29	10.632	12.260
24234	74	7.232	25.877	24408	32	14.750	5.720	24480	40	22.804	8.984	24552*	104	11.129	12.332
24235	29	8.086	25.243	24409	29	17.172	5.420	24481	28	23.874	8.320	24553	24	11.522	12.470
24236	25	8.090	25.003	24410	27	17.314	5.717	24482	28	24.045	8.280	24554	28	11.590	12.450
24237	26	8.644	25.100	24411	30	20.586	5.626	24483	34	25.538	8.688	24555*	39	17.442	12.718
24238	30	10.120	25.978	24412	23	20.788	5.068	24484	24	25.052	8.204	24556*	47	17.794	12.525
24239	29	10.980	25.170	24413	28	21.523	5.394	24485	22	25.768	8.406	24557	35	19.750	12.840
24240	45	11.627	25.790	24414	26	23.898	5.380	24486*	77	1.006	9.179	24558	37	19.901	12.430
24241	30	11.885	25.419	24415	30	24.014	5.190	24487	37	1.801	9.886	24559	30	22.930	12.889
24242	55	15.972	25.390	24416	20	24.536	5.492	24488	24	3.143	9.886	24560	22	23.188	12.401
24243	43	16.332	25.101	24417	44	0.064	6.778	24489	20	4.335	9.514	24561	24	23.750	12.080
24244	26	18.079	25.479	24418	38	0.877	6.646	24490	27	4.928	9.203	24562	29	0.446	13.978
24245	48	19.362	25.338	24419	27	1.812	6.150	24491	21	5.859	9.828	24563*	115	0.642	13.710
24246	38	20.340	25.994	24420	26	1.911	6.488	24492	30	6.734	9.634	24564	25	3.176	13.104
24247	27	20.420	25.334	24421	29	3.106	6.980	24493	27	8.570	9.370	24565	59	13.216	13.211
24248	34	21.598	25.234	24422	20	4.066	6.810	24494	28	11.786	9.697	24566	56	12.820	13.727
24249	42	22.777	25.514	24423	26	6.098	6.194	24495	26	12.462	9.492	24567*	100	15.511	13.990
24250	24	22.878	25.030	24424	21	7.860	6.996	24496	34	12.666	9.737	24568	88	15.679	13.795
24251	51	23.218	25.558	24425	44	8.138	6.108	24497*	87	13.504	9.287	24569*	103	20.897	13.476
24252	34	24.064	25.492	24426	27	12.959	6.380	24498	26	16.435	9.620	24570	33	22.130	13.254
24253	66	24.668	25.906	24427	27	14.562	6.728	24499	50	17.520	9.258	24571	45	23.200	13.660

24572	22	1°321	14°502	24644	46	13°640	18°452	24716	28	14°624	22°350	24788	24	18°180	25°856	24843	39	22°850	0°540
24573	26	1°796	14°874	24645	47	14°728	18°398	24717	24	19°914	22°154	24789	36	18°915	25°999	24844	38	22°968	0°714
24574	23	3°258	14°649	24646	28	15°070	18°488	24718	19	20°445	22°486	24790	32	22°640	25°388	24845	25	23°659	0°198
24575	26	4°600	14°100	24647	29	16°476	18°294	24719	24	21°764	22°557	24791	28	22°654	25°864	24846	46	24°016	0°416
24576	38	6°450	14°940	24648	33	17°642	18°219	24720	22	22°810	22°958	24792	33	22°761	25°738	24847	10	24°520	0°848
24577*	60	13°337	14°726	24649	42	18°930	18°550	24721	24	22°814	22°858	24793	34	23°571	25°813	24848	25	24°600	0°044
24578*	132	16°556	14°800	24650	40	19°159	18°835	24722	35	24°632	22°312					24849	20	25°301	0°751
24579	29	16°644	14°218	24651*	56	19°664	18°796	24723	27	24°685	22°506					24850	10	0°473	1°568
24580	50	17°332	14°262	24652	36	19°924	18°088	24724	25	1°154	23°612					24851	25	1°095	1°650
24581*	60	18°768	14°796	24653	24	0°940	19°046	24725	41	1°706	23°540					24852	14	1°144	1°960
24582	58	20°732	14°518	24654	24	2°921	19°560	24726	23	4°444	23°970					24853	13	1°260	1°638
24583	26	22°168	14°123	24655	31	3°335	19°002	24727	52	5°348	23°465					24854	9	1°372	1°952
24584	42	24°162	14°043	24656	33	4°374	19°688	24728	36	5°596	23°458					24855	13	1°739	1°128
24585	40	25°641	14°088	24657	34	6°304	20°729	24729	29	6°538	23°862					24856	17	2°016	1°704
24586	60	2°382	15°583	24658	60	9°626	19°736	24730	27	8°253	23°630					24857	10	2°336	1°182
24587	26	2°552	15°562	24659	32	11°629	19°518	24731	21	9°536	23°876					24858	24	3°379	1°646
24588	33	2°882	15°108	24660	24	12°658	19°860	24732	33	10°120	23°230					24859	17	4°902	1°678
24589*	60	7°946	15°060	24661	29	17°462	19°066	24733	40	11°090	23°000					24860	33	5°322	1°790
24590	46	11°886	15°334	24662	26	21°200	19°670	24734	32	11°452	23°498					24861	19	5°412	1°610
24591	37	13°354	15°522	24663	32	22°004	19°192	24735	29	11°828	23°020					24862	30	5°961	1°092
24592	36	13°661	15°328	24664	53	22°998	19°420	24736	21	12°194	23°988					24863	12	6°418	1°378
24593*	67	14°177	15°016	24665	22	24°143	19°720	24737	28	12°996	23°091					24864	17	6°438	1°810
24594	40	15°551	15°829	24666	43	24°690	19°386	24738	24	13°230	23°200					24865	19	6°775	1°936
24595	30	16°715	15°740	24667	46	25°629	19°966	24739	21	15°190	23°237					24866	25	7°144	1°236
24596	32	20°903	15°843	24668	38	0°096	20°735	24740	25	16°646	23°856					24867	12	8°400	1°794
24597	57	21°355	15°324	24669	28	1°020	20°087	24741*	54	20°750	23°448					24868	12	8°445	1°098
24598	19	21°652	15°614	24670	29	2°564	20°338	24742	24	21°869	23°820					24869	16	8°568	1°768
24599	29	22°219	15°928	24671	38	4°970	20°874	24743	23	22°354	23°354					24870	18	8°750	1°782
24600	37	23°224	15°102	24672	32	7°090	20°491	24744	39	24°090	23°896					24871	20	8°876	1°252
24601	31	23°560	15°208	24673	29	7°390	20°424	24745	22	25°168	23°356					24872*	47	9°250	1°184
24602	32	25°191	15°074	24674	43	9°270	20°107	24746	24	25°248	23°994					24873	23	9°807	1°122
24603	23	25°642	15°211	24675	39	9°480	20°040	24747	44	1°992	24°558					24874	22	10°478	1°632
24604	22	25°714	15°300	24676	33	9°743	20°290	24748	36	2°030	24°380					24875	13	10°740	1°750
24605	24	0°890	16°120	24677	21	10°124	20°936	24749	22	5°177	24°502					24876	21	11°452	1°613
24606	25	2°555	16°490	24678	25	10°860	20°002	24750	20	7°665	24°517					24877	24	11°566	1°714
24607	29	3°096	16°430	24679	22	10°870	20°014	24751	30	8°227	24°068					24878*	44	11°701	1°900
24608	29	6°140	16°192	24680	33	14°349	20°764	24752	24	10°402	24°140					24879	15	11°710	1°296
24609	34	10°831	16°240	24681	28	15°899	20°525	24753	20	11°720	24°950					24880*	41	11°775	1°700
24610	21	11°470	16°176	24682	31	16°184	20°016	24754	26	12°345	24°548					24881	25	11°938	1°129
24611	37	11°487	16°172	24683	39	16°700	20°067	24755	45	12°691	24°688					24882	31	12°252	1°028
24612	32	11°758	16°200	24684	44	17°040	20°129	24756	29	16°142	24°614					24883	31	12°273	1°864
24613	39	12°094	16°088	24685	31	17°437	20°614	24757	25	16°450	24°710					24884	12	12°350	1°970
24614	30	20°288	16°834	24686	35	18°329	20°992	24758	47	20°676	24°400					24885	26	12°592	1°582
24615	31	20°472	16°480	24687	45	19°364	20°020	24759	30	20°943	24°294					24886	27	12°613	1°664
24616	47	20°954	16°377	24688	27	19°994	20°562	24760	44	21°167	24°410					24887	22	12°914	1°891
24617	37	21°535	16°108	24689	34	20°201	20°198	24761	22	22°883	24°764					24888	10	12°960	1°060
24618	27	21°760	16°617	24690	19	20°840	20°532	24762	23	22°959	24°514					24889	19	13°093	1°500
24619	50	21°922	16°270	24691	52	21°794	20°720	24763	23	23°159	24°554					24890	13	13°272	1°366
24620	24	24°341	16°030	24692	57	22°505	20°835	24764	24	23°546	24°343					24891	12	13°882	1°909
24621	24	25°234	16°115	24693	21	23°861	20°801	24765	26	23°778	24°181					24892	23	14°052	1°254
24622	27	25°304	16°274	24694	48	24°570	20°110	24766	21	24°000	24°182					24893	14	14°307	1°126
24623	54	1°708	17°124	24695	32	25°103	20°214	24767	25	24°090	24°700					24894	26	14°334	1°198
24624	28	2°324	17°010	24696	29	4°006	21°170	24768	24	24°787	24°470					24895	20	14°480	1°382
24625	44	3°436	17°279	24697	22	4°535	21°549	24769	23	25°059	24°459					24896	18	14°548	1°006
24626	49	5°252	17°702	24698	40	8°673	21°431	24770	22	25°646	24°174					24897	18	14°565	1°350
24627	46	5°431	17°350	24699	23	8°784	21°346	24771	47	25°920	24°174					24898	14	14°620	1°139
24628*	72	5°586	17°615	24700	30	13°732	21°712	24772	34	0°531	25°467					24899	40	14°708	1°570
24629	30	8°498	17°072	24701	38	14°451	21°624	24773	44	0°970	25°506					24900	19	14°934	1°462
24630	31	11°144	17°878	24702	34	15°333	21°856	24774	26	1°819	25°430					24901	10	14°988	1°055
24631	28	14°402	17°500	24703	46	19°100	21°300	24775	50	2°424	25°832					24902	12	15°066	1°128
24632	42	14°896	17°720	24704	27	20°017	21°007	24776	21	4°312	25°936					24903	11	15°218	1°408
24633	27	17°214	17°610	24705	23	20°067	21°449	24777	29	5°950	25°552					24904	9	15°254	1°056
24634	30	19°874	17°630	24706	22	22°499	21°436	24778	22	6°313	25°436					24905	29	15°520	1°481
24635	32	24°805	17°214	24707	24	23°136	21°202	24779	26	6°748	25°270					24906	32	16°272	1°621
24636	28	25°238	17°224	24708	27	23°263	21°438	24780	37	9°244	25°394					24907*	44	16°448	1°146
24637	27	25°580	17°228	24709	31	24°303	21°470	24781	67	11°532	25°404					24908	32	17°592	1°469
24638	72	25°940	17°528	24710	35	1°607	22°892	24782	20	12°977	25°702					24909	39	17°614	1°546
24639	35	7°310	18°782	24711	23	5°666	22°616	24783	20	13°296	25°070					24910	18	17°967	1°770
24640	31	7°554	18°040	24712	34	9°275	22°990	24784	20	14°150	25°215					24911	13		

24915	14	19-995	1-264	24987	16	19-829	2-324	25059	11	20-548	3-609	25131	31	20-834	4-868	25203	21	19-788	5-980
24916	27	20-320	1-528	24988	17	20-182	2-601	25060	42	20-987	3-646	25132	21	21-118	4-268	25204	15	19-791	5-895
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26774	25	18-606	25-218					26903	19	16-132	5-468	26975	30	13-670	8-690	27047	23	20-876	11-334
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26776	26	19-072	25-122					26905	30	20-086	5-336	26977	21	17-190	8-234	27049	57	23-136	11-780
26777	30	19-348	25-047					26906	19	20-444	5-912	26978	25	19-582	8-968	27050	46	23-767	11-150
26778	24	20-288	25-511					26907	33	20-462	5-964	26979	22	19-806	8-017	27051	27	24-024	11-330
26779	24	20-518	25-962					26908	28	8-921	2-166	26980	24	19-902	8-544	27052	40	1-449	12-040
26780	30	21-242	25-674					26909	23	8-924	2-076	26981	44	20-160	8-989	27053	21	1-642	12-130
26781	32	21-458	25-641					26910	45	11-284	2-412	26982	21	21-152	8-862	27054	38	1-870	12-802
26782	14	21-570	25-536					26911	25	12-933	5-777	26983	42	21-365	8-878	27055	19	2-240	12-974
26783	14	21-692	25-848					26912	36	13-548	5-736	26984	66	21-380	8-890	27056	29	2-464	12-114
26784	26	21-864	25-943					26913	23	14-266	5-372	2698							

27060	22	6.548	12.349	27132	25	10.934	15.560	27204	19	15.434	18.384	27276	31	10.250	21.958	27348	46	20.200	23.396
27061	27	12.354	12.961	27133	22	11.146	15.740	27205	46	16.096	18.676	27277	34	10.585	21.353	27349	27	21.830	23.284
27062	36	12.439	12.223	27134	35	11.700	15.941	27206	34	16.488	18.138	27278	26	11.296	21.914	27350	24	22.452	23.383
27063	31	14.480	12.830	27135	35	12.354	15.532	27207	21	16.636	18.661	27279	25	11.598	21.518	27351	36	22.772	23.647
27064	35	15.700	12.268	27136	27	13.690	15.623	27208	58	17.414	18.410	27280	21	11.814	21.642	27352	39	23.299	23.382
27065	29	16.202	12.254	27137	57	14.996	15.070	27209	27	18.016	18.659	27281	56	11.870	21.622	27353	30	1.046	24.562
27066	29	16.272	12.380	27138	21	15.684	15.780	27210	20	19.110	18.854	27282	22	11.919	21.880	27354	27	1.162	24.926
27067	21	17.164	12.385	27139	31	17.466	15.017	27211	24	19.452	18.446	27283	100	13.124	21.580	27355	32	1.420	24.020
27068	37	18.924	12.176	27140	22	20.847	15.610	27212	22	19.704	18.340	27284	39	15.548	21.608	27356	29	1.960	24.200
27069	21	19.082	12.330	27141	20	21.786	15.849	27213	19	20.109	18.272	27285	26	16.319	21.453	27357	26	2.618	24.347
27070	21	19.237	12.916	27142	22	21.840	15.964	27214	21	20.490	18.760	27286	67	17.705	21.134	27358	24	3.218	24.536
27071	35	19.801	12.689	27143	34	25.584	15.465	27215	20	20.890	18.050	27287	80	17.984	21.584	27359	25	4.190	24.534
27072	22	20.489	12.480	27144	64	25.816	15.134	27216	38	24.626	18.550	27288	21	18.084	21.638	27360	26	4.913	24.800
27073	20	21.574	12.607	27145	29	0.459	16.684	27217	24	24.949	18.064	27289	34	18.442	21.798	27361	23	5.124	24.945
27074	42	21.588	12.666	27146	22	1.072	16.984	27218	26	3.820	19.742	27290	38	19.598	21.610	27362	39	7.129	24.945
27075	95	22.500	12.847	27147	27	1.249	16.196	27219	28	5.040	19.648	27291	21	20.022	21.235	27363	23	7.680	24.584
27076	21	22.560	12.950	27148	48	1.350	16.350	27220	26	5.784	19.340	27292	20	20.358	21.000	27364	44	10.101	24.540
27077	20	22.876	12.961	27149	25	3.968	16.944	27221	34	6.858	19.260	27293	44	22.519	21.778	27365	19	11.467	24.750
27078	29	23.210	12.040	27150	25	4.771	16.795	27222	20	7.428	19.330	27294	31	22.528	21.760	27366	45	11.762	24.180
27079	21	25.115	12.384	27151	31	6.750	16.766	27223	31	10.740	19.176	27295	46	23.681	21.750	27367	34	12.070	24.912
27080	23	25.453	12.568	27152	29	7.358	16.590	27224	20	14.237	19.380	27296	41	24.081	21.480	27368	35	14.414	24.172
27081	27	0.194	13.550	27153	32	7.424	16.066	27225	32	14.327	19.300	27297	28	25.637	21.024	27369	26	15.178	24.861
27082	30	1.328	13.264	27154	20	8.632	16.496	27226	62	14.360	19.414	27298	28	0.241	22.400	27370	49	15.215	24.202
27083	33	4.680	13.315	27155	24	9.328	16.350	27227	23	14.416	19.740	27299	30	2.563	22.281	27371	20	15.864	24.210
27084	36	5.100	13.181	27156	34	10.512	16.164	27228	21	14.720	19.470	27300	29	2.572	22.600	27372	24	16.018	24.488
27085	34	6.450	13.654	27157	60	12.209	16.180	27229	21	14.840	19.550	27301	44	4.126	22.766	27373	22	16.510	24.971
27086	50	7.084	13.532	27158	23	12.920	16.015	27230	47	15.702	19.013	27302	46	5.999	22.336	27374	44	17.966	24.083
27087	21	7.784	13.320	27159	27	13.650	16.540	27231	22	17.374	19.218	27303	31	6.839	22.220	27375	23	18.518	24.226
27088	25	9.526	13.074	27160	21	13.945	16.560	27232	24	17.958	19.120	27304	22	7.422	22.290	27376	21	19.932	24.586
27089	47	9.866	13.538	27161	24	15.170	16.006	27233	37	20.704	19.914	27305	24	7.845	22.724	27377	40	20.132	24.360
27090	26	10.836	13.002	27162	20	15.860	16.788	27234	43	21.116	19.896	27306	19	7.986	22.966	27378	27	20.498	24.152
27091	48	11.260	13.817	27163	30	16.150	16.809	27235	43	22.287	19.974	27307	46	9.250	22.301	27379	28	20.600	24.744
27092	22	12.069	13.718	27164	35	17.476	16.106	27236	34	24.170	19.346	27308	72	9.839	22.880	27380	36	25.318	24.366
27093	27	12.224	13.500	27165	21	20.836	16.251	27237	70	24.491	19.726	27309	20	10.474	22.982	27381	33	1.036	25.050
27094	31	15.195	13.671	27166	26	21.137	16.270	27238	22	2.554	20.136	27310	26	10.918	22.990	27382	48	1.920	25.270
27095	28	16.400	13.300	27167	21	22.064	16.282	27239	32	5.128	20.536	27311	30	11.266	22.582	27383	23	3.258	25.771
27096	31	18.372	13.045	27168	25	25.144	16.075	27240	34	5.360	20.705	27312	22	13.116	22.452	27384	36	3.992	25.142
27097	20	19.630	13.430	27169	22	0.771	17.788	27241	24	5.732	20.474	27313	21	13.147	22.984	27385	42	4.606	25.510
27098	21	19.653	13.451	27170	62	2.280	17.959	27242	44	6.130	20.066	27314	31	15.397	22.550	27386	22	4.616	25.444
27099	34	19.748	13.852	27171	27	2.781	17.390	27243	21	7.822	20.758	27315	51	15.596	22.477	27387	30	5.116	25.514
27100	38	22.160	13.086	27172	25	3.706	17.108	27244	25	8.036	20.918	27316	30	15.854	22.806	27388	114	5.278	25.418
27101	20	22.414	13.615	27173	20	6.762	17.643	27245	53	8.946	20.053	27317	24	16.281	22.200	27389	31	7.834	25.726
27102	40	25.440	13.851	27174	27	7.192	17.934	27246	20	9.332	20.500	27318	26	16.358	22.510	27390	20	7.962	25.112
27103	37	2.930	14.625	27175	23	8.560	17.555	27247	30	11.416	20.330	27319	20	16.562	22.924	27391	21	8.740	25.332
27104	62	3.456	14.053	27176	36	9.194	17.550	27248	29	12.570	20.020	27320	23	16.968	22.784	27392	38	9.851	25.813
27105	20	4.804	14.050	27177	29	9.340	17.780	27249	38	13.064	20.474	27321	31	17.308	22.314	27393	21	10.950	25.168
27106	25	6.202	14.666	27178	21	10.065	17.160	27250	177	14.090	20.079	27322	22	17.422	22.200	27394	24	11.666	25.566
27107	22	12.852	14.529	27179	33	10.532	17.221	27251	58	14.772	20.114	27323	23	18.680	22.437	27395	21	11.753	25.070
27108	36	13.010	14.476	27180	26	12.258	17.170	27252	26	15.918	20.000	27324	23	18.982	22.355	27396	52	11.760	25.864
27109	24	13.024	14.730	27181	28	15.876	17.962	27253	26	16.821	20.434	27325	20	19.478	22.197	27397	24	11.940	25.592
27110	20	15.611	14.964	27182	28	17.080	17.450	27254	23	16.850	20.662	27326	24	19.504	22.908	27398	33	12.711	25.264
27111	28	18.110	14.952	27183	20	17.440	17.121	27255	31	19.176	20.982	27327	25	20.482	22.826	27399	27	12.740	25.130
27112	20	20.321	14.254	27184	38	18.448	17.484	27256	21	19.446	20.817	27328	26	20.526	22.480	27400	24	13.484	25.952
27113	36	21.678	14.808	27185	32	18.530	17.760	27257	21	19.686	20.770	27329	23	23.975	22.234	27401	20	14.103	25.961
27114	26	22.430	14.130	27186	20	24.302	17.736	27258	63	19.756	20.938	27330	25	24.263	22.040	27402	26	14.460	25.442
27115	41	24.884	14.500	27187	21	24.390	17.754	27259	42	20.622	20.646	27331	60	24.519	22.952	27403	21	18.074	25.577
27116	26	25.464	14.766	27188	20	24.488	17.318	27260	27	21.352	20.056	27332	30	0.135	23.883	27404	38	19.988	25.620
27117	57	25.589	14.545	27189	30	25.228	17.927	27261	26	21.976	20.299	27333	25	2.100	23.973	27405	128	20.320	25.182
27118	29	1.268	15.784	27190	23	25.280	17.740	27262	31	23.428	20.209	27334	22	3.490	23.448	27406	31	22.045	25.050
27119	28	3.019	15.005	27191	20	0.631	18.516	27263	23	24.425	20.670	27335	54	3.860	23.350	27407	23	22.100	25.992
27120	22	4.136	15.985	27192	22	2.616	18.716	27264	47	0.113	21.448	27336	20	3.862	23.335	27408	30	22.187	25.627
27121	25	4.474	15.002	27193	21	2.824	18.635	27265	32	1.709	21.054	27337							

R.A. 8<sup>h</sup> 0<sup>m</sup>

Plate 2230 ; 1925 Mar. 16.

Provisional Constants.

A

B

C

+00096

+00454

—4542

D

E

F

—00457

+00074

—1150

Mag. = 16.0 — 0.94 √ d

No.	d	x	y
27451	23	0.352	0.570
27452	25	1.017	0.783
27453	22	1.768	0.160
27454	36	4.290	0.595
27455	27	4.418	0.468
27456	23	7.066	0.252
27457	24	7.360	0.901
27458	24	7.770	0.557
27459	23	9.316	0.392
27460	26	11.418	0.780
27461	33	12.116	0.114
27462*	46	13.385	0.676
27463*	45	13.862	0.527
27464*	23	14.180	0.801
27465	31	16.150	0.174
27466	28	16.674	0.882
27467	24	17.310	0.020
27468	29	19.547	0.008
27469	45	20.070	0.822
27470	43	20.373	0.663
27471	32	21.104	0.769
27472	33	22.396	0.369
27473	25	22.801	0.315
27474	28	24.830	0.066
27475	28	25.136	0.863
27476	33	0.431	1.088
27477*	48	0.433	1.633
27478	33	1.665	1.581
27479	26	4.020	1.125
27480*	59	4.611	1.934
27481*	28	5.093	1.391
27482	25	6.700	1.302
27483	34	6.785	1.982
27484	26	8.070	1.754
27485	24	9.061	1.505
27486	32	9.540	1.930
27487	30	10.048	1.372
27488*	81	11.746	1.954
27489*	41	12.880	1.529
27490	33	16.528	1.549
27491	35	17.509	1.448
27492	30	17.900	1.422
27493*	44	18.716	1.802
27494	29	18.756	1.969
27495	32	19.856	1.280
27496	33	25.246	1.510
27497	24	0.141	2.868
27498	46	0.202	2.205
27499	22	2.633	2.741
27500	34	2.828	2.826
27501	32	3.536	2.536
27502	31	4.642	2.888
27503	21	4.646	2.637
27504	27	5.122	2.341
27505	45	5.449	2.571

27506	34	6.096	2.632
27507	26	6.367	2.508
27508	31	6.564	2.070
27509	22	6.732	2.207
27510	23	6.826	2.786
27511	32	7.204	2.876
27512	44	7.954	2.298
27513*	36	8.189	2.542
27514	32	9.413	2.521
27515	18	10.470	2.260
27516	24	10.491	2.239
27517*	48	12.500	2.373
27518	39	12.984	2.276
27519	28	14.134	2.878
27520	33	14.800	2.012
27521	33	16.196	2.760
27522	24	16.665	2.982
27523	40	17.032	2.323
27524	33	18.965	2.488
27525	21	20.289	2.488
27526	33	20.532	2.730
27527	42	20.751	2.322
27528	38	20.777	2.463
27529	29	20.936	2.228
27530	44	21.020	2.496
27531	22	21.100	2.742
27532	32	24.829	2.528
27533	39	2.208	3.920
27534	38	2.356	3.789
27535	29	3.098	3.211
27536	19	3.253	3.934
27537	33	3.282	3.186
27538	27	5.782	3.409
27539	38	5.862	3.499
27540	29	6.522	3.399
27541	27	7.370	3.900
27542	25	7.839	3.630
27543	20	8.386	3.660
27544	22	10.240	3.086
27545	29	10.338	3.019
27546	25	10.598	3.500
27547	31	11.183	3.011
27548	24	12.058	3.580
27549	32	12.166	3.264
27550	32	12.405	3.165
27551	28	16.616	3.234
27552	25	16.634	3.340
27553	24	17.848	3.361
27554	34	19.114	3.112
27555	32	20.040	3.010
27556	29	20.768	3.664
27557*	46	22.180	3.104
27558	36	23.264	3.317
27559	39	23.940	3.567
27560*	31	24.042	3.826
27561	24	24.236	3.634
27562	30	24.514	3.350
27563	32	24.579	3.665
27564	25	24.798	3.080
27565	23	0.730	4.971
27566	21	0.751	4.311
27567	22	3.862	4.620
27568	24	8.089	4.752
27569	24	9.709	4.460
27570	22	9.904	4.068
27571	20	10.174	4.289
27572	19	11.082	4.626
27573	32	12.981	4.940
27574	27	13.767	4.357
27575	25	14.424	4.984
27576	32	14.556	4.901

27578	21	14.670	4.070
27579	28	17.333	4.640
27580	21	17.598	4.322
27581	40	19.610	4.381
27582	39	20.136	4.950
27583	21	21.635	4.178
27584	34	21.964	4.829
27585	31	22.096	4.878
27586	26	23.469	4.994
27587	32	24.054	4.679
27588	21	24.176	4.210
27589	24	24.294	4.510
27590	29	24.744	4.010
27591	40	0.194	5.656
27592	31	0.674	5.800
27593	42	0.710	5.026
27594	34	1.290	5.951
27595	28	2.368	5.376
27596	28	3.284	5.410
27597	29	3.300	5.381
27598	22	3.634	5.176
27599*	46	5.222	5.187
27600	30	5.552	5.854
27601	41	6.987	5.808
27602	22	7.476	5.832
27603	20	7.822	5.819
27604	24	8.770	5.677
27605	22	9.039	5.350
27606	23	9.158	5.521
27607	30	9.328	5.898
27608	39	10.452	5.842
27609	18	11.960	5.185
27610	21	12.322	5.311
27611	21	13.502	5.002
27612	24	14.890	5.488
27613	22	15.321	5.974
27614*	47	15.580	5.082
27615	25	16.355	5.390
27616	20	17.010	5.832
27617	36	17.312	5.563
27618	22	18.042	5.250
27619	31	18.764	5.180
27620	46	19.250	5.496
27621	62	19.404	5.011
27622*	55	20.328	5.039
27623*	30	20.752	5.002
27624	34	21.044	5.216
27625	33	24.661	5.294
27626	80	25.120	5.709
27627	25	25.289	5.689
27628	37	1.840	6.979
27629	39	3.350	6.218
27630	24	4.686	6.806
27631	42	5.880	6.684
27632	28	7.206	6.150
27633	31	7.882	6.260
27634	32	9.692	6.311
27635	32	9.991	6.069
27636	40	10.607	6.326
27637	34	14.084	6.248
27638	21	14.697	6.939
27639	22	15.642	6.998
27640	34	17.296	6.284
27641	29	17.840	6.588
27642	38	19.604	6.090
27643	38	20.000	6.635
27644	25	20.559	6.268
27645	43	20.782	6.658
27646	48	21.834	6.767
27647	33	21.914	6.547

27650	41	22.833	6.299
27651	24	24.677	6.731
27652	21	25.431	6.939
27653	34	2.543	7.048
27654	23	4.197	7.980
27655	22	5.044	7.119
27656	23	5.240	7.290
27657	25	6.635	7.018
27658	45	7.444	7.404
27659	21	9.046	7.100
27660	39	9.678	7.942
27661	27	9.898	7.323
27662	35	10.996	7.985
27663*	70	11.858	7.238
27664	20	13.010	7.736
27665	23	13.140	7.857
27666	28	14.044	7.388
27667	22	14.386	7.107
27668	26	15.913	7.115
27669*	46	16.471	7.898
27670	25	16.762	7.264
27671	21	18.034	7.261
27672	21	18.662	7.503
27673	30	19.388	7.505
27674	26	19.429	7.698
27675	37	19.930	7.950
27676	22	20.751	7.601
27677	30	20.754	7.512
27678	40	21.505	7.266
27679	22	22.262	7.653
27680	43	23.566	7.050
27681	33	0.244	8.444
27682	20	0.456	8.383
27683	20	0.525	8.778
27684	47	0.796	8.282
27685	24	1.430	8.446
27686	21	1.468	8.454
27687	41	1.608	8.562
27688	22	4.150	8.612
27689	30	5.968	8.074
27690	22	6.195	8.240
27691	34	6.230	8.842
27692	26	6.424	8.642
27693	20	6.875	8.873
27694	29	7.162	8.811
27695	41	7.303	8.819
27696	41	7.698	8.792
27697	23	9.140	8.291
27698	42	9.544	8.726
27699	34	9.731	8.742
27700	46	10.126	8.453
27701	32	10.275	8.474
27702	23	10.874	8.480
27703	21	11.032	8.544
27704	21	11.311	8.230
27705	22	11.859	8.044
27706	25	15.047	8.205
27707	28	15.224	8.496
27708	32	15.564	8.169
27709	20	16.658	8.192
27710	21	17.055	8.526
27711	56	17.238	8.166
27712	22	17.840	8.981
27713	24	19.680	8.236
27714	25	20.200	8.883
27715	22	22.057	8.768
27716	34	23.410	8.534
27717	30	24.682	8.991
27718	29	25.046	8.675
27719	32	1.590	9.954
27720	19	2.575	9.634
27721	29	2.652	9.721

27722	25	6.203	9.561
27723	34	7.127	9.697
27724	24	7.551	9.520
27725	39	8.288	9.684
27726	25	8.336	9.056
27727	20	8.874	9.697
27728*	46	9.384	9.588
27729	34	12.346	9.724
27730	24	14.876	9.976
27731	18	15.097	9.224
27732	29	15.204	9.108
27733	22	15.212	9.978
27734	25	15.250	9.170
27735	18	15.768	9.339
27736	23	16.308	9.926
27737	24	17.350	9.056
27738	29	17.889	9.832
27739	42	17.894	9.468
27740	22	17.904	9.680
27741	23	18.290	9.726
27742*	67	18.422	9.824
27743	47	18.543	9.860
27744	29	18.866	9.586
27745	26	20.325	

27794	35	10°276	11°098	27866	40	18°650	13°144	27938	32	25°888	16°742	28010	48	5°708	20°452	28082	30	18°608	23°001
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27796	29	11°813	11°460	27868	44	20°535	13°716	27940	22	2°292	17°958	28012	36	5°853	20°676	28084	36	19°700	23°078
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27799	29	16°575	11°842	27871	35	25°988	13°441	27943	45	8°586	17°800	28015	33	8°440	20°042	28087	37	20°740	23°211
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27802	33	17°710	11°784	27874	39	3°290	14°041	27946	31	11°004	17°042	28018	35	10°415	20°951	28090	40	25°866	23°614
27803	21	18°703	11°832	27875	31	3°328	14°955	27947*	80	11°292	17°844	28019	31	10°470	20°752	28091	40	3°309	24°555
27804	23	20°770	11°290	27876	46	3°448	14°731	27948	32	11°358	17°610	28020	31	12°374	20°180	28092	38	4°122	24°118
27805	33	24°285	11°528	27877	23	5°132	14°136	27949	23	12°480	17°951	28021	29	17°872	20°942	28093	38	4°640	24°686
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27807	31	25°176	11°704	27879	31	8°934	14°486	27951	32	14°819	17°943	28023	25	19°274	20°278	28095	42	6°858	24°201
27808	27	25°424	11°445	27880	28	9°286	14°961	27952*	38	15°114	17°824	28024	25	19°620	20°682	28096	34	9°952	24°580
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27810	34	0°640	12°174	27882*	80	14°527	14°631	27954	22	18°184	17°360	28026*	34	21°449	20°301	28098	32	14°700	24°041
27811	44	0°958	12°000	27883	42	14°568	14°097	27955	27	20°080	17°729	28027	33	22°330	20°320	28099*	41	14°916	24°161
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27815	26	3°285	12°754	27887	23	20°866	14°994	27959	25	24°812	17°081	28031	41	1°639	21°960	28103	31	22°273	24°211
27816	31	4°110	12°930	27888	32	21°820	14°288	27960	37	2°540	18°750	28032	39	2°035	21°688	28104	34	0°049	25°282
27817	19	5°926	12°714	27889*	42	24°245	14°079	27961	31	2°854	18°258	28033	34	3°586	21°209	28105	32	0°199	25°550
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27820*	102	7°777	12°663	27892	38	3°456	15°650	27964	35	9°166	18°855	28036	24	5°226	21°346	28108	33	4°273	25°140
27821	42	8°888	12°691	27893	66	3°681	15°314	27965	24	9°789	18°040	28037	32	5°616	21°336	28109	33	4°508	25°020
27822	25	9°827	12°322	27894	23	4°002	15°022	27966*	46	10°521	18°278	28038	35	6°068	21°916	28110	27	6°140	25°023
27823	34	10°213	12°439	27895	27	4°182	15°711	27967	32	11°686	18°393	28039	31	6°560	21°620	28111	28	6°424	25°618
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27827	33	12°535	12°870	27899	35	5°085	15°076	27971	32	16°659	18°100	28043	40	13°958	21°778	28115	31	10°066	25°146
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27834	40	17°674	12°984	27906	46	12°395	15°872	27978*	57	2°419	19°928	28050*	51	18°924	21°550	28122	42	15°450	25°166
27835*	52	18°364	12°094	27907	33	13°636	15°152	27979	23	2°590	19°250	28051	30	24°479	21°160	28123	32	16°440	25°672
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27838	37	19°693	12°409	27910	23	19°607	15°553	27982	37	7°614	19°112	28054	31	2°225	22°245				
27839	20	20°086	12°992	27911	30	23°286	15°256	27983	30	7°654	19°426	28055	28	6°369	22°366				
27840	42	20°446	12°160	27912	30	24°314	15°311	27984	30	8°064	19°320	28056	34	7°535	22°185				
27841	22	20°772	12°833	27913	33	24°989	15°704	27985	40	9°365	19°508	28057	32	8°137	22°078				
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27843	34	22°809	12°681	27915	31	4°879	16°735	27987	28	11°440	19°500	28059	27	13°070	22°949				
27844	22	23°519	12°250	27916	20	6°040	16°368	27988	26	12°796	19°884	28060	29	14°750	22°119				
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27846	19	0°049	13°770	27918	26	8°038	16°711	27990	42	13°725	19°386	28062	30	17°270	22°651				
27847	23	0°261	13°843	27919	44	8°329	16°186	27991	23	14°487	19°624	28063	39	17°930	22°470				
27848*	88	0°330	13°075	27920	26	9°216	16°663	27992	24	15°977	19°200	28064	34	18°556	22°614				
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28164	17	8-813	0-960	28236	16	0-452	2-898	28308*	60	4-070	3-902	28380	18	10-200	+666	28452	21	16-115	5-258
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28168	12	11-010	0-061	28239	20	2-640	2-816	28311	20	4-836	3-009	28383	12	11-715	+536	28455	14	17-446	5-394
28169	23	12-704	0-744	28240	34	2-660	2-274	28312	18	6-156	3-504	28384	19	11-946	+948	28456	16	18-500	5-096
28170	16	12-766	0-482	28241	17	4-324	2-851	28313	12	6-238	3-631	28385	28	13-142	+397	28457	23	18-872	5-552
28171	17	12-854	0-326	28242	17	4-888	2-969	28314	23	6-346	3-250	28386	46	13-768	+384	28458	16	19-294	5-073
28172	13	13-885	0-897	28243	15	5-123	2-786	28315	26	7-688	3-877	28387	12	14-470	+736	28459*	33	20-013	5-614
28173	40	14-080	0-430	28245	18	5-538	2-337	28317	20	9-894	3-672	28389	15	14-660	+422	28460	11	20-224	5-254
28174	30	14-884	0-704	28246	15	5-574	2-366	28318	15	9-983	3-650	28390	13	14-700	+565	28461	11	20-360	5-266
28175	24	15-086	0-504	28247	38	5-874	2-397	28319	12	9-990	3-822	28391	11	16-034	+142	28462	23	20-516	5-824
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28177	15	16-833	0-440	28249	26	7-281	2-874	28321	21	10-274	3-442	28393	15	16-974	+267	28464	25	23-396	5-896
28178	11	17-950	0-218	28250	37	7-544	2-474	28322	16	10-799	3-424	28394	14	17-280	+684	28465	11	23-821	5-205
28179	22	18-257	0-961	28251	16	7-700	2-144	28323	14	11-510	3-609	28395	18	17-823	+866	28466	17	24-260	5-152
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28181	14	18-445	0-342	28253	18	9-046	2-662	28325	12	11-700	3-220	28397	14	18-404	+718	28468	12	25-519	5-536
28182	36	19-046	0-881	28254	12	9-828	2-324	28326	39	11-830	3-446	28398*	48	19-824	+868	28469	14	25-834	5-619
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28184*	58	20-021	0-942	28256	39	9-918	2-757	28328	36	12-950	3-420	28400	15	21-037	+670	28471	32	27-742	6-004
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28189	14	22-212	0-042	28261	26	12-228	2-468	28333	32	13-544	3-686	28405	16	25-210	+546	28476	18	30-285	6-235
28190*	96	25-005	0-656	28262	17	13-346	2-793	28334	32	14-562	3-600	28406*	52	25-446	+144	28477	19	30-304	6-596
28191	11	0-518	1-518	28263	17	13-590	2-752	28335	16	14-862	3-158	28407	15	25-738	+490	28478	16	30-666	6-828
28192	15	2-292	1-274	28264	32	14-164	2-638	28336	33	15-250	3-952	28408	14	25-870	+142	28479	20	30-934	6-444
28193	12	2-913	1-872	28265	14	14-418	2-532	28337*	48	15-426	3-629	28409	16	0-449	5-375	28480	18	31-115	6-644
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28195	17	3-842	1-754	28267	16	14-937	2-297	28339	26	16-096	3-854	28411	17	1-404	5-529	28482	26	31-598	6-168
28196	26	4-929	1-734	28268	16	15-090	2-714	28340	16	16-324	3-838	28412	18	1-456	5-214	28483	24	31-920	6-294
28197	15	6-886	1-966	28269	17	15-380	2-126	28341	18	16-624	3-115	28413	15	1-821	5-572	28484	16	32-281	6-260
28198	36	6-946	1-784	28270	11	15-400	2-368	28342	15	16-770	3-806	28414*	64	2-976	5-396	28485	26	32-594	6-146
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28200	22	7-716	1-011	28272	15	16-360	2-635	28344	17	17-456	3-680	28416	11	3-413	5-107	28487	39	33-000	6-248
28201*	44	7-956	1-796	28273	15	16-550	2-774	28345	28	18-561	3-720	28417	15	3-711	5-194	28488*	30	33-580	6-488
28202	12	8-325	1-946	28274	14	17-010	2-810	28346	12	18-787	3-051	28418	42	3-994	5-812	28489	26	33-865	6-316
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285																			



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28886	20	15°276	11°398	28958	20	10°260	12°445	29030	14	9°294	13°480	29102	19	9°703	13°296	29174	13	11°147	15°218
28887	13	15°340	11°914	28959	21	11°049	12°982	29031	16	10°300	13°274	29103	13	10°230	14°531	29175	11	11°208	15°238
28888	14	15°556	11°283	28960	24	11°386	12°474	29032	16	10°482	13°946	29104	13	10°384	14°611	29176	12	11°325	15°368
28889	12	15°685	11°046	28961	16	11°574	12°747	29033	20	10°580	13°682	29105	12	10°444	14°514	29177	13	11°530	15°640
28890	13	15°790	11°378	28962	12	12°074	12°186	29034	14	10°860	13°276	29106	16	10°600	14°382	29178	19	11°800	15°334
28891	12	15°844	11°026	28963	12	12°274	12°940	29035	21	11°056	13°447	29107	22	10°970	14°236	29179	14	12°545	15°732
28892	12	17°006	11°196	28964	11	12°289	12°844	29036	15	11°269	13°568	29108	12	11°160	14°028	29180	12	12°824	15°448
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28894	16	17°206	11°394	28966	13	12°363	12°772	29038	14	11°840	13°844	29110	11	11°601	14°614	29182	12	13°177	15°212
28895	13	17°240	11°774	28967	16	12°404	12°970	29039	14	12°462	13°478	29111	14	11°650	14°022	29183	28	13°200	15°007
28896	14	17°266	11°426	28968	14	12°774	12°515	29040	13	12°894	13°960	29112	12	11°969	14°334	29184	13	13°415	15°266
28897	12	18°114	11°812	28969	15	13°034	12°834	29041	12	13°132	13°776	29113	17	12°166	14°678	29185	13	13°798	15°872
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28899	15	18°816	11°437	28971	16	13°340	12°873	29043	16	14°030	13°271	29115	16	13°713	14°556	29187	16	14°402	15°565
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28916	12	0°422	12°104	28988	23	17°774	12°534	29060	11	17°346	13°796	29132	17	18°572	14°934	29204	12	20°921	15°025
28917	24	0°794	12°266	28989	23	18°896	12°426	29061	12	17°542	13°600	29133	15	19°166	14°277	29205	24	22°880	15°972
28918	28	0°824	12°008	28990	11	19°334	12°999	29062	12	17°670	13°726	29134	13	19°366	14°124	29206	12	23°744	15°736
28919	15	1°402	12°720	28991	12	19°927	12°850	29063	13	17°804	13°530	29135	17	19°625	14°962	29207	15	24°916	15°288
28920	12	1°452	12°606	28992	17	20°156	12°676	29064	14	17°924	13°370	29136	13	19°806	14°748	29208	12	25°446	15°496
28921	13	1°480	12°815	28993	15	20°834	12°294	29065	24	17°960	13°156	29137	18	20°959	14°987	29209	15	25°468	15°638
28922	20	1°789	12°842	28994	14	20°868	12°980	29066	16	18°506	13°834	29138	16	21°548	14°895	29210	14	25°502	15°402
28923	13	2°630	12°006	28995	12	20°898	12°541	29067	13	18°542	13°722	29139	16	21°934	14°284	29211	14	25°616	15°294
28924	18	2°640	12°616	28996	12	21°270	12°564	29068	12	19°471	13°143	29140	12	22°519	14°708	29212	16	25°668	15°174
28925	12	3°376	12°725	28997	15	21°310	12°429	29069	17	19°916	13°637	29141	16	22°872	14°148	29213	42	0°744	16°857
28926	14	3°634	12°846	28998	11	21°440	12°964	29070	16	20°394	13°064	29142	20	22°936	14°171	29214	12	1°343	16°768
28927	23	3°925	12°976	28999	20	21°686	12°782	29071	11	21°186	13°971	29143	37	22°984	14°144	29215	15	1°606	16°314
28928	14	3°970	12°914	29000	14	22°222	12°606	29072	16	21°414	13°154	29144	19	23°340	14°844	29216	13	2°002	16°316
28929	14	4°271	12°977	29001	15	22°293	12°080	29073	20	21°804	13°104	29145	18	23°518	14°476	29217	13	2°006	16°200
28930	13	4°550	12°834	29002	13	23°290	12°232	29074	14	21°920	13°424	29146	11	24°840	14°448	29218	17	2°148	16°322
28931	15	4°990	12°702	29003	12	23°962	12°030	29075	15	22°250	13°800	29147	12	25°425	14°312	29219	11	2°189	16°106
28932	19	5°006	12°586	29004	26	24°412	12°796	29076	24	22°342	13°005	29148	24	25°432	14°032	29220	24	2°721	16°024
28933	32	5°081	12°433	29005	22	24°762	12°632	29077	22	22°643	13°844	29149	19	25°595	14°134	29221	12	2°731	16°333
28934	26	5°452	12°632	29006	16	25°225	12°694	29078	15	24°406	13°536	29150	14	0°894	15°086	29222	19	2°815	16°564
28935	27	5°511	12°908	29007	16	25°700	12°415	29079	16	24°655	13°282	29151	12	0°902	15°734	29223	12	2°826	16°881
28936	12	5°554	12°684	29008	12	25°706	12°518	29080	26	25°284	13°469	29152	13	1°576	15°544	29224	17	3°383	16°721
28937	16	5°574	12°165	29009	14	0°721	13°895	29081	22	1°295	14°794	29153	21	1°711	15°834	29225	18	3°868	16°216
28938	15	5°842	12°428	29010	12	2°102	13°515	29082	14	2°014	14°63								

29237	12	9.657	16.486	29309	12	6.976	17.660	29381	12	6.117	18.284	29453	14	7.112	19.936	29525	17	6.906	20.842
29238	15	9.894	16.124	29310	16	7.114	17.754	29382	12	6.348	18.800	29454	39	7.356	19.156	29526	16	7.319	20.810
29239	12	10.313	16.052	29311	18	7.160	17.336	29383	14	6.564	18.236	29455	19	8.450	19.264	29527	14	7.824	20.878
29240	16	10.440	16.506	29312	16	7.700	17.962	29384	26	6.804	18.104	29456	21	8.526	19.586	29528	13	8.005	20.616
29241	13	10.614	16.356	29313	13	8.044	17.930	29385*	40	7.366	18.864	29457*	44	8.842	19.330	29529	17	8.170	20.234
29242	26	11.582	16.622	29314	12	8.352	17.167	29386	22	7.616	18.116	29458	14	9.365	19.160	29530	15	8.340	20.806
29243	17	12.050	16.876	29315	12	8.527	17.886	29387	14	7.834	18.834	29459	13	9.704	19.334	29531	15	8.424	20.705
29244	15	12.279	16.395	29316	13	9.352	17.960	29388	14	8.116	18.984	29460	12	9.837	19.373	29532	12	8.774	20.604
29245	13	12.387	16.736	29317	12	9.434	17.914	29389	16	8.124	18.244	29461	14	10.105	19.724	29533	16	9.146	20.466
29246	12	12.886	16.624	29318	16	9.469	17.383	29390	12	8.430	18.070	29462	17	10.246	19.394	29534	14	9.150	20.774
29247	19	13.815	16.421	29319	21	9.521	17.684	29391	18	8.622	18.364	29463	12	10.284	19.277	29535	20	9.578	20.926
29248	13	14.438	16.876	29320	15	10.096	17.554	29392	12	8.837	18.164	29464	18	10.356	19.310	29536	19	9.614	20.246
29249	14	14.611	16.686	29321	21	10.627	17.606	29393	14	8.980	18.370	29465	19	10.584	19.353	29537	14	9.886	20.442
29250	23	14.714	16.344	29322	12	11.096	17.672	29394	21	9.604	18.518	29466	16	10.612	19.776	29538	20	10.072	20.536
29251	24	14.742	16.503	29323	12	11.966	17.045	29395	12	9.610	18.303	29467	12	10.636	19.373	29539	12	10.326	20.024
29252	12	14.934	16.796	29324	12	12.583	17.285	29396	16	9.974	18.635	29468	12	11.332	19.762	29540	12	10.688	20.074
29253	14	15.472	16.270	29325	12	12.596	17.428	29397	20	10.066	18.391	29469	14	11.376	19.585	29541	11	11.182	20.273
29254	15	15.584	16.204	29326	13	13.014	17.674	29398	13	10.438	18.106	29470	17	11.454	19.344	29542	20	12.442	20.501
29255	16	15.910	16.720	29327	15	13.548	17.456	29399	14	10.806	18.324	29471	16	11.496	19.550	29543	13	12.572	20.508
29256	14	16.005	16.266	29328	24	13.717	17.311	29400	14	12.350	18.054	29472	15	11.830	19.958	29544	16	12.735	20.434
29257	13	16.017	16.361	29329	12	13.892	17.200	29401	13	12.854	18.094	29473	13	12.228	19.375	29545	12	12.806	20.494
29258	17	16.388	16.332	29330	18	14.050	17.372	29402	21	13.122	18.976	29474	13	12.505	19.686	29546	17	12.808	20.876
29259	12	16.700	16.368	29331	13	14.416	17.358	29403	14	13.452	18.173	29475	13	12.560	19.214	29547	18	12.996	20.574
29260	14	17.222	16.952	29332	19	14.848	17.674	29404	14	13.697	18.126	29476	13	12.936	19.334	29548	16	13.104	20.596
29261	26	17.348	16.762	29333	26	15.015	17.090	29405	16	14.040	18.386	29477	13	13.694	19.421	29549	18	13.366	20.050
29262	15	17.590	16.578	29334	24	15.100	17.452	29406	15	14.316	18.954	29478	13	13.894	19.074	29550	30	13.820	20.938
29263	18	17.734	16.522	29335	17	15.166	17.674	29407	12	15.048	18.056	29479	16	14.484	19.260	29551	18	13.926	20.239
29264	13	17.884	16.895	29336	14	15.581	17.823	29408	11	15.778	18.338	29480	15	14.539	19.455	29552	37	13.935	20.702
29265	24	18.196	16.756	29337	16	15.652	17.541	29409	12	15.918	18.925	29481	17	14.881	19.446	29553	13	16.382	20.806
29266	16	18.214	16.776	29338	12	15.754	17.234	29410	14	16.058	18.135	29482	24	14.932	19.096	29554	17	16.422	20.504
29267	12	19.668	16.542	29339	19	16.259	17.764	29411	14	16.598	18.416	29483	13	14.934	19.114	29555	12	16.776	20.241
29268	12	20.682	16.360	29340	24	16.419	17.342	29412	32	17.114	18.688	29484	13	15.578	19.996	29556	20	17.277	20.376
29269	14	20.808	16.458	29341	13	16.448	17.766	29413	21	17.619	18.356	29485	19	16.567	19.919	29557	26	17.385	20.382
29270	13	20.860	16.564	29342	21	16.826	17.954	29414	16	17.952	18.814	29486	11	16.646	19.595	29558	18	17.918	20.554
29271	12	20.978	16.904	29343	14	16.889	17.382	29415	12	17.986	18.924	29487	22	17.610	19.234	29559	18	18.040	20.368
29272	17	21.076	16.810	29344	15	16.956	17.952	29416	13	20.041	18.860	29488	20	17.806	19.386	29560	15	18.042	20.424
29273	14	21.118	16.058	29345	16	17.398	17.586	29417	15	20.103	18.970	29489	15	17.861	19.074	29561	14	18.493	20.623
29274	14	21.200	16.984	29346	15	17.941	17.344	29418	14	20.234	18.106	29490	12	18.094	19.826	29562	20	18.493	20.264
29275	20	21.338	16.021	29347	14	18.086	17.622	29419	20	20.566	18.151	29491	21	18.160	19.916	29563	15	18.506	20.205
29276	20	21.371	16.273	29348	13	18.166	17.125	29420	14	20.590	18.295	29492	13	18.320	19.162	29564	12	19.986	20.265
29277	13	21.426	16.762	29349	18	19.194	17.641	29421	17	20.644	18.745	29493	28	19.044	19.334	29565	15	21.435	20.604
29278	16	21.543	16.336	29350	19	19.306	17.692	29422	12	21.354	18.540	29494	22	19.210	19.184	29566	17	21.684	20.971
29279	18	21.556	16.793	29351	12	19.649	17.667	29423	18	21.735	18.494	29495	12	19.214	19.052	29567	11	21.790	20.986
29280	13	21.942	16.112	29352	32	20.050	17.212	29424	15	22.324	18.928	29496	11	19.332	19.535	29568	16	22.402	20.164
29281	12	22.016	16.570	29353	12	20.520	17.272	29425	24	22.326	18.598	29497	12	19.522	19.270	29569	17	22.689	20.057
29282	15	22.306	16.845	29354	12	21.709	17.486	29426	11	22.363	18.914	29498	13	20.391	19.685	29570	30	23.162	20.088
29283	14	22.866	16.894	29355	17	22.020	17.290	29427	23	22.994	18.386	29499	19	20.399	19.599	29571	16	23.300	20.754
29284	11	23.149	16.312	29356	17	22.154	17.730	29428	13	24.436	18.382	29500	15	20.426	19.916	29572	15	23.500	20.218
29285	14	23.400	16.473	29357	12	23.164	17.232	29429	14	25.120	18.076	29501	13	20.531	19.561	29573	24	23.712	20.968
29286	15	23.546	16.048	29358	24	23.192	17.869	29430	34	25.418	18.308	29502	13	20.804	19.614	29574	19	23.854	20.923
29287	13	23.586	16.692	29359	15	23.287	17.615	29431	15	0.168	19.764	29503	12	21.206	19.228	29575	17	24.060	20.240
29288	14	24.325	16.925	29360	16	23.360	17.368	29432	21	0.420	19.776	29504	12	21.944	19.843	29576	12	24.155	20.204
29289	13	24.785	16.039	29361	12	23.480	17.803	29433	14	0.532	19.025	29505	14	24.520	19.954	29577	15	25.306	20.556
29290	17	25.289	16.494	29362	13	23.886	17.658	29434	17	0.650	19.188	29506	22	25.574	19.056	29578	12	25.645	20.186
29291	26	25.688	16.774	29363	13	24.278	17.028	29435	21	0.994	19.662	29507	17	0.772	20.864	29579	15	25.741	20.278
29292	37	25.756	16.340	29364	13	24.443	17.802	29436	16	1.662	19.442	29508	17	1.054	20.420	29580	19	0.900	21.876
29293	12	0.073	17.278	29365	30	24.908	17.366	29437	14	3.475	19.008	29509	13	1.250	20.378	29581	15	1.906	21.056
29294	21	1.470	17.266	29366	22	24.932	17.860	29438	16	3.476	19.304	29510	22	2.538	20.574	29582	16	3.316	21.089
29295	16	1.982	17.066	29367	26	25.180	17.588	29439	20	3.694	19.114	29511	13	2.815	20.336	29583	16	3.554	21.095
29296	15	2.026	17.606	29368	14	1.632	18.755	29440	37	3.814	19.548	29512	15	3.805	20.790	29584	14	4.344	21.744
29297	14	2.644	17.278	29369	11	1.826	18.010	29441	14	3.834	19.165	29513	13	4.032	20.576	29585	17	4.477	21.999
29298	13	3.033	17.475	29370	19	2.662	18.758	29442	12	3.850	19.530								

R.A. 8<sup>h</sup> 16<sup>m</sup>

Plate 1534; 1920 Jan. 18.

Provisional Constants.

A B C  
 --01769 +00683 --1884  
 D E F  
 --00687 --01799 --1058

Mag. = 15.6 - 0.94√d

No.	d	x	y
29901	31	1.503	0.350
29902	31	1.700	0.248
29903	17	2.274	0.002
29904	23	2.578	0.026
29905	33	4.038	0.394
29906	30	4.488	0.930
29907	38	4.560	0.343
29908	30	5.492	0.228
29909	20	5.664	0.586
29910	14	6.254	0.450
29911	21	7.466	0.352
29912	27	8.108	0.401
29913*	55	10.148	0.122
29914	14	10.729	0.112
29915	46	11.698	0.352
29916	20	12.094	0.168
29917	16	12.136	0.204
29918	25	13.092	0.105
29919	10	14.307	0.488
29920	34	14.448	0.872
29921	36	15.428	0.656
29922	28	17.232	0.232
29923	15	19.252	0.570
29924	29	19.298	0.310
29925*	50	22.710	0.402
29926	22	23.921	0.014
29927	12	24.542	0.138
29928*	86	2.964	1.022
29929	22	3.032	1.997
29930	33	4.090	1.918
29931	14	4.192	1.242
29932	34	4.961	1.420
29933	17	5.270	1.164
29934	35	6.826	1.942
29935	10	6.886	1.352
29936	17	7.074	1.114
29937	21	7.842	1.800
29938	24	8.628	1.372
29939	33	8.700	1.290
29940	12	10.198	1.959
29941	21	10.346	1.390
29942	20	12.282	1.162
29943	19	12.644	1.988
29944	39	13.336	1.830
29945	9	15.844	1.821
29946	37	16.792	1.529
29947	10	17.100	1.190
29948	25	17.336	1.992
29949	17	17.423	1.592
29950*	59	17.554	1.384
29951	9	20.108	1.581
29952	13	20.968	1.034
29953	10	22.074	1.622
29954	27	23.188	1.894
29955	16	24.640	1.938

29597	16	9.066	21.236	29669	12	11.656	22.636	29741	36	14.964	23.013	29813	13	20.078	24.114
29598	18	9.330	21.184	29670	16	11.876	22.790	29742	16	15.885	23.556	29814	20	20.120	24.676
29599	24	9.382	21.888	29671	14	12.507	22.896	29743	34	16.606	23.584	29815	14	21.104	24.718
29600	11	9.461	21.323	29672	13	12.584	22.828	29744	12	17.502	23.452	29816	16	21.128	24.656
29601	13	9.703	21.710	29673	16	12.774	22.136	29745	17	17.764	23.794	29817	16	21.536	24.940
29602	17	10.135	21.116	29674	11	13.466	22.143	29746	16	18.038	23.478	29818	19	23.006	24.068
29603	14	10.240	21.147	29675	17	13.850	22.274	29747	24	18.052	23.234	29819	16	23.382	24.794
29604	13	10.374	21.128	29676	12	14.606	22.126	29748	14	18.401	23.400	29820	14	24.382	24.811
29605	12	11.122	21.156	29677	16	14.654	22.044	29749	32	18.886	23.094	29821	60	0.905	25.300
29606	21	11.376	21.644	29678	12	14.708	22.568	29750	13	19.106	23.252	29822	48	0.934	25.536
29607	14	12.291	21.854	29679	12	15.153	22.474	29751	12	19.134	23.015	29823	38	1.268	25.460
29608	22	12.527	21.726	29680	16	15.638	22.835	29752	12	19.459	23.604	29824	17	1.536	25.404
29609	12	12.627	21.464	29681	14	15.810	22.744	29753	28	19.530	23.474	29825	51	4.916	25.704
29610	13	12.986	21.244	29682	13	15.852	22.444	29754	12	20.378	23.147	29826	14	5.758	25.375
29611	12	13.280	21.335	29683	18	16.367	22.546	29755	20	20.446	23.216	29827	28	6.415	25.857
29612	18	14.030	21.314	29684	16	16.480	22.018	29756	14	21.256	23.102	29828	13	6.897	25.100
29613	16	14.222	21.214	29685	17	17.014	22.224	29757	18	21.596	23.234	29829	46	7.374	25.376
29614	18	14.602	21.609	29686	20	17.126	22.779	29758	19	21.669	23.760	29830	13	7.437	25.865
29615	13	14.777	21.182	29687	18	17.252	22.836	29759	38	22.413	23.816	29831	46	8.340	25.224
29616	15	15.156	21.144	29688	28	17.442	22.826	29760	13	22.604	23.190	29832	40	8.624	25.946
29617	21	15.192	21.846	29689	26	17.843	22.036	29761	14	23.602	23.492	29833	15	8.678	25.846
29618	12	15.946	21.296	29690	40	18.080	22.206	29762	12	23.670	23.134	29834	12	8.778	25.378
29619	18	16.496	21.351	29691	18	18.930	22.574	29763	12	24.019	23.340	29835	16	8.862	25.664
29620	25	16.882	21.257	29692	22	19.767	22.129	29764	16	24.284	23.180	29836	19	9.054	25.896
29621	16	16.928	21.475	29693	17	20.046	22.848	29765	46	25.306	23.755	29837	12	9.356	25.746
29622	17	17.685	21.598	29694	19	20.675	22.256	29766	11	25.412	23.120	29838	12	9.676	25.172
29623	14	17.870	21.274	29695	19	21.279	22.358	29767	13	25.596	24.806	29839	44	10.040	25.462
29624	11	17.930	21.436	29696	36	21.388	22.321	29768	17	2.834	24.634	29840	11	10.058	25.187
29625	19	19.383	21.115	29697	22	21.402	22.188	29769	15	2.890	24.044	29841	15	11.022	25.866
29626	19	19.414	21.670	29698	36	21.703	22.473	29770	46	3.302	24.836	29842	17	11.406	25.159
29627	12	20.080	21.286	29699	21	21.966	22.626	29771	16	3.434	24.056	29843	16	12.378	25.994
29628	20	20.118	21.606	29700	24	22.164	22.772	29772	12	3.942	24.605	29844	46	12.656	25.981
29629	14	21.014	21.765	29701	40	22.334	22.087	29773	34	4.512	24.655	29845	19	12.706	25.066
29630	12	21.376	21.004	29702	37	22.542	22.923	29774	13	4.769	24.714	29846	14	13.295	25.302
29631	11	21.507	21.868	29703	15	24.660	22.314	29775	17	6.450	24.131	29847	12	13.374	25.354
29632	30	21.834	21.758	29704	44	25.174	22.892	29776	12	7.356	24.886	29848	16	13.380	25.510
29633	14	21.835	21.660	29705	22	0.064	23.080	29777	13	7.724	24.255	29849	12	13.444	25.710
29634	23	22.450	21.191	29706	20	0.414	23.596	29778	14	8.345	24.474	29850	13	13.611	25.973
29635	16	23.024	21.676	29707	17	0.767	23.554	29779	16	8.348	24.647	29851	13	14.566	25.970
29636	12	23.978	21.912	29708	15	3.146	23.480	29780	20	8.519	24.214	29852	19	16.156	25.019
29637	18	25.280	21.576	29709	15	3.695	23.867	29781	14	8.618	24.542	29853	17	17.108	25.332
29638	16	25.344	21.526	29710	15	3.703	23.250	29782	16	8.715	24.258	29854	52	18.306	25.977
29639	34	25.424	21.306	29711	16	3.886	23.565	29783	38	8.786	24.306	29855	17	20.029	25.127
29640	18	0.850	22.932	29712	23	4.464	23.236	29784	14	8.878	24.656	29856	42	20.374	25.620
29641	17	1.724	22.115	29713	16	5.538	23.342	29785	16	9.076	24.096	29857	18	20.906	25.037
29642	26	1.856	22.306	29714	12	5.978	23.899	29786	13	9.326	24.616	29858	17	21.593	25.238
29643	15	3.506	22.654	29715	13	6.268	23.541	29787	11	9.357	24.159	29859	13	21.708	25.656
29644	40	3.926	22.966	29716	11	6.491	23.067	29788	15	9.614	24.874	29860	26	21.778	25.726
29645	13	4.366	22.834	29717	15	6.836	23.715	29789	12	9.689	24.238	29861	34	21.962	25.340
29646	16	4.406	22.111	29718	30	6.866	23.924	29790	14	9.775	24.030	29862	35	22.582	25.900
29647	12	4.556	22.446	29719	12	7.103	23.827	29791	17	10.706	24.806	29863	32	22.710	25.734
29648	13	4.916	22.060	29720	24	7.116	23.203	29792	17	10.732	24.457	29864	15	23.034	25.092
29649	37	4.960	22.798	29721	19	7.208	23.314	29793	15	10.756	24.021	29865	32	23.599	25.874
29650	12	5.200	22.637	29722	13	7.552	23.480	29794	16	11.518	24.472	29866	16	23.652	25.076
29651	24	6.294	22.912	29723	13	8.180	23.624	29795	13	11.613	24.636	29867	17	24.590	25.631
29652	19	6.872	22.574	29724	13	8.214	23.366	29796	14	12.365	24.517	29868	46	25.184	25.992
29653	15	7.216	22.269	29725	18	8.480	23.289	29797	38	12.990	24.980				
29654	32	7.356	22.384	29726	18	9.306	23.850	29798	11	13.050	24.632				
29655	12	7.482	22.407	29727	16	9.386	23.560	29799	14	13.402	24.534				
29656	13	7.720	22.593	29728	12	10.976	23.779	29800	13	13.581	24.189				
29657	18	8.246	22.365	29729	13	11.057	23.274	29801	13	14.630	24.038				
29658	24	8.432	22.556	29730	18	11.962	23.846	29802	13	14.660	24.036				
29659	12	8.984	22.087	29731	14	12.149	23.304	29803	28	14.690	24.540				
29660	17	9.100	22.744	29732	12	13.169	23.394	29804	26	15.170	24.931				
29661	12	9.449	22.545	29733	12	13.234	23.794	29805	25	16.597	24.607				
29662	23	9.876	22.474	29734	16	13.636	23.604	29806	40	16.611	24.398				
29663	16	9.876	22.004	29735	21	14.316	23.872	29807	28	17.744	24.756				
29664	14	10.100	22.646	29736	24	14.326	23.233	29808	15	19.076	24.628				
29665	30	10.386	22.398	29737	20	14.374	23.522	29809	18	19.204	24.358				
29666	37	10.392	22.344	29738	21	14.706	23.308	29810	24	19.600	24.920				
29667	12	10.521	22.034	29739	12	14.766	23.166	29811	14	19.672	24.516				
29668	37	11.226	22.044	29740	30	14.774	23.054	29812	16	19.697	24.960				

29956	27	0.772	2.658	30028	23	20.384	3.397	30100	11	7.864	5.104	30172	47	23.786	6.073	30244	12	7.193	8.019
29957	26	2.548	2.938	30029*	49	20.453	3.788	30101	15	8.093	5.439	30173	12	24.348	6.158	30245	23	7.198	8.212
29958	26	3.648	2.469	30030	12	20.956	3.537	30102	14	8.124	5.318	30174	24	1.958	7.827	30246	28	7.414	8.842
29959	16	3.859	2.770	30031	10	21.048	3.790	30103	12	8.405	5.230	30175	33	2.352	7.415	30247*	44	7.598	8.168
29960	19	4.228	2.342	30032	40	21.804	3.126	30104	10	8.578	5.332	30176*	85	2.660	7.652	30248	14	7.840	8.277
29961	15	4.997	2.930	30033	34	21.804	3.183	30105	19	9.507	5.473	30177	14	3.690	7.001	30249	37	8.274	8.162
29962	29	5.730	2.654	30034	35	21.817	3.206	30106	24	9.752	5.553	30178	25	4.073	7.493	30250	15	9.340	8.332
29963	48	6.943	2.055	30035	10	22.550	3.700	30107	22	10.099	5.180	30179	23	4.283	7.274	30251	24	9.593	8.223
29964	20	8.718	2.002	30036	24	1.734	4.344	30108	17	10.630	5.451	30180	9	4.954	7.150	30252	17	9.661	8.171
29965	10	9.493	2.389	30037	19	3.150	4.446	30109	24	10.876	5.750	30181	36	5.149	7.126	30253	20	9.675	8.400
29966	15	10.320	2.916	30038	23	3.242	4.904	30110	12	10.977	5.560	30182	30	5.195	7.184	30254	10	10.392	8.940
29967	26	11.644	2.339	30039	24	3.445	4.063	30111*	54	13.010	5.792	30183	17	5.286	7.894	30255	9	10.949	8.398
29968	31	12.502	2.344	30040*	47	3.461	4.500	30112	22	13.026	5.699	30184	23	6.734	7.010	30256	24	11.995	8.514
29969	35	12.616	2.538	30041	21	3.764	4.488	30113	30	15.490	5.960	30185	23	8.800	7.788	30257	29	12.398	8.657
29970	36	12.670	2.889	30042	16	4.428	4.956	30114	22	16.718	5.980	30186	22	9.048	7.049	30258	39	12.412	8.605
29971	10	14.131	2.808	30043	25	5.686	4.974	30115	15	17.090	5.211	30187	13	9.676	7.534	30259	11	13.882	8.398
29972	22	14.518	2.810	30044	12	5.777	4.740	30116	22	17.510	5.996	30188	13	10.230	7.812	30260	30	14.080	8.292
29973	40	15.468	2.356	30045	16	6.026	4.192	30117	19	17.900	5.784	30189	23	10.639	7.013	30261	39	14.978	8.220
29974	36	16.763	2.514	30046	11	6.868	4.842	30118	17	18.266	5.071	30190	27	10.802	7.214	30262	31	15.736	8.918
29975	23	16.772	2.319	30047	17	7.924	4.020	30119	11	18.710	5.092	30191	22	11.265	7.943	30263	22	16.332	8.876
29976	23	18.320	2.664	30048	23	8.562	4.882	30120	30	19.141	5.434	30192	27	11.418	7.710	30264	20	16.498	8.100
29977	24	19.150	2.941	30049	16	8.580	4.260	30121	13	20.638	5.672	30193	21	12.344	7.383	30265	35	18.224	8.485
29978	19	19.280	2.552	30050	15	9.327	4.980	30122	22	21.544	5.218	30194	30	12.348	7.246	30266	29	18.810	8.298
29979	35	19.413	2.206	30051	21	9.538	4.880	30123	23	21.564	5.946	30195	20	12.723	7.392	30267	24	19.666	8.068
29980	38	20.448	2.472	30052	30	10.066	4.098	30124	15	21.734	5.883	30196	16	12.762	7.258	30268	18	19.977	8.907
29981	31	20.676	2.834	30053	16	10.961	4.232	30125	22	22.163	5.623	30197*	42	13.709	7.655	30269	15	20.666	8.964
29982	14	21.005	2.622	30054	14	11.582	4.950	30126	11	22.390	5.053	30198	23	14.113	7.066	30270	13	20.888	8.872
29983	34	21.194	2.399	30055	17	11.886	4.828	30127	31	22.723	5.830	30199*	33	14.320	7.692	30271	16	21.382	8.320
29984	19	21.225	2.154	30056	33	12.100	4.102	30128	32	23.728	5.091	30200	10	14.411	7.102	30272	33	22.592	8.700
29985	24	22.916	2.167	30057	18	12.282	4.552	30129	23	23.834	5.467	30201	20	14.515	7.207	30273	11	22.727	8.283
29986	9	24.970	2.784	30058	16	12.638	4.899	30130	19	24.804	5.610	30202	11	15.046	7.160	30274	13	23.948	8.238
29987*	56	25.332	2.478	30059	20	13.407	4.922	30131	10	0.152	6.069	30203	26	16.018	7.778	30275	19	24.518	8.826
29988	12	0.782	3.220	30060	34	13.838	4.124	30132	21	0.204	6.455	30204	19	16.158	7.202	30276	42	24.519	8.993
29989	22	0.895	3.156	30061	37	14.278	4.038	30133	10	1.446	6.282	30205	23	17.066	7.190	30277	31	0.392	9.170
29990*	60	0.915	3.202	30062	31	14.610	4.438	30134	29	1.454	6.160	30206	21	17.092	7.707	30278	25	0.536	9.907
29991	14	0.968	3.658	30063	17	14.828	4.136	30135	11	3.166	6.748	30207	14	17.920	7.144	30279	32	1.530	9.085
29992	42	2.159	3.082	30064	23	15.004	4.436	30136	24	3.168	6.252	30208	16	18.466	7.568	30280	36	1.642	9.782
29993	28	2.322	3.098	30065	23	15.798	4.202	30137	19	3.928	6.548	30209	24	18.527	7.560	30281	33	1.706	9.982
29994	11	3.116	3.048	30066	11	15.963	4.184	30138	22	3.936	6.532	30210	12	18.911	7.718	30282	22	2.284	9.866
29995	26	3.420	3.390	30067	28	16.837	4.194	30139	35	4.205	6.450	30211	37	19.099	7.545	30283	32	2.492	9.690
29996	11	3.600	3.316	30068	43	17.512	4.823	30140*	49	4.416	6.992	30212	10	19.536	7.130	30284	10	2.831	9.877
29997	24	4.396	3.276	30069	21	17.692	4.373	30141	36	4.888	6.946	30213	11	19.852	7.778	30285	18	2.992	9.436
29998	25	5.288	3.598	30070*	50	18.565	4.086	30142*	60	5.623	6.610	30214	23	20.182	7.250	30286	18	3.516	9.480
29999	28	5.782	3.370	30071	32	18.717	4.044	30143	13	6.016	6.178	30215	26	20.426	7.149	30287	12	4.694	9.781
30000	16	6.136	3.716	30072	13	19.208	4.848	30144	17	6.534	6.408	30216	12	21.845	7.280	30288	17	5.698	9.640
30001	32	6.416	3.892	30073	25	20.394	4.468	30145	13	7.277	6.428	30217	11	22.134	7.008	30289	27	6.574	9.560
30002	34	7.936	3.602	30074	10	21.181	4.308	30146	21	8.722	6.985	30218	34	24.848	7.713	30290	11	7.329	9.020
30003	22	8.087	3.884	30075	16	21.236	4.675	30147	17	8.751	6.671	30219	27	25.978	7.296	30291*	48	7.724	9.772
30004*	64	8.092	3.931	30076	21	21.684	4.250	30148	19	8.910	6.456	30220	38	0.109	8.171	30292	10	8.036	9.468
30005	14	8.492	3.173	30077*	44	21.706	4.246	30149	16	10.018	6.640	30221	21	0.238	8.030	30293	22	8.167	9.470
30006	16	8.532	3.377	30078	13	22.168	4.403	30150	11	10.560	6.811	30222	14	0.318	8.886	30294	30	8.336	9.818
30007	26	9.310	3.362	30079	15	22.170	4.074	30151	29	10.602	6.100	30223	31	0.448	8.774	30295	33	8.450	9.592
30008	21	9.334	3.481	30080*	35	22.340	4.159	30152	40	11.214	6.160	30224	18	0.903	8.341	30296	9	9.460	9.904
30009	26	9.418	3.950	30081	33	22.387	4.900	30153	10	11.214	6.750	30225	11	1.158	8.008	30297*	46	9.514	9.178
30010	31	9.576	3.052	30082	31	22.707	4.918	30154	14	11.833	6.898	30226	12	1.726	8.460	30298	17	9.518	9.498
30011	32	9.739	3.642	30083	11	24.120	4.550	30155	29	12.634	6.244	30227	16	2.006	8.021	30299	18	9.610	9.898
30012	45	10.215	3.232	30084	13	24.388	4.177	30156	34	12.887	6.560	30228	27	2.110	8.016	30300	16	9.878	9.672
30013	46	10.322	3.619	30085	10	24.521	4.349	30157	33	13.406	6.020	30229	10	2.318	8.122	30301	13	10.618	9.982
30014	23	10.980	3.972	30086	53	25.400	4.380	30158	11	14.507	6.830	30230	17	2.430	8.304	30302	25	11.260	9.808
30015	21	12.542	3.240	30087	19	0.231	5.360	30159	22	16.949	6.588	30231	37	2.499	8.308	30303	33	11.690	9.910
30016	29	15.315	3.218	30088	21	1.406	5.270	30160*	40	16.996	6.306	30232	21	2.714	8.482	30304	28	11.914	9.794
30017	29	15.935	3.689	30089	11	1.865	5.586	30161	28	17.388	6.345	30233	39	3.543	8.798	30305	11	12.460	9.760
30018*	40	16.252	3.920	30090	14	2.301	5.527	30162	24	17.493	6.602	30234	26	3.707	8.490	30306	33	13.673	9.412
30019	19	16.693	3.831	30091	15	2.811	5.005	30163	30										

30316	41	17-469	9-905	30388	21	25-308	10-866	30460	38	9-770	12-753	30532	32	19-910	13-308	30604	22	3-708	15-753
30317	19	17-723	9-742	30389	16	0-480	11-473	30461	31	10-162	12-628	30533	19	19-960	13-169	30605	15	3-816	15-644
30318	10	18-116	9-318	30390	25	0-537	11-238	30462	27	10-392	12-912	30534	13	20-775	13-629	30606	22	3-868	15-521
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30322	28	18-787	9-730	30394	18	2-220	11-376	30466	24	12-120	12-180	30538	33	23-118	13-686	30610	9	6-090	15-491
30323	10	19-522	9-634	30395	22	2-718	11-008	30467	21	13-117	12-052	30539	21	23-326	13-533	30611	18	6-639	15-941
30324	14	19-999	9-910	30396	20	3-209	11-440	30468	13	13-358	12-297	30540	54	23-398	13-192	30612	11	6-913	15-464
30325	11	20-126	9-200	30397	16	3-330	11-452	30469	21	15-484	12-470	30541	32	24-303	13-202	30613	28	7-994	15-683
30326	21	20-360	9-109	30398	35	4-922	11-017	30470	19	15-648	12-964	30542	19	24-316	13-192	30614	36	8-314	15-468
30327	12	20-532	9-856	30399	35	5-318	11-996	30471	34	16-048	12-022	30543	13	25-324	13-870	30615	26	9-482	15-184
30328	35	20-535	9-837	30400	27	5-754	11-997	30472	14	16-675	12-669	30544	19	0-121	14-690	30616	20	9-622	15-900
30329	14	20-589	9-983	30401	15	6-472	11-311	30473	30	17-160	12-478	30545	16	0-429	14-202	30617	23	10-402	15-016
30330	35	21-118	9-178	30402	13	6-480	11-398	30474	35	17-766	12-260	30546	33	0-820	14-242	30618	11	10-609	15-550
30331	34	22-669	9-034	30403	23	6-500	11-742	30475	40	17-964	12-469	30547	18	1-056	14-542	30619	15	11-366	15-388
30332	12	23-193	9-470	30404	41	8-318	11-722	30476	19	18-316	12-409	30548	33	1-118	14-562	30620	13	12-630	15-800
30333	27	23-550	9-028	30405	42	8-516	11-150	30477	20	19-140	12-791	30549	46	1-162	14-536	30621	24	12-876	15-922
30334	12	23-824	9-528	30406	48	8-958	11-738	30478	24	19-141	12-854	30550	21	1-705	14-858	30622	23	13-070	15-798
30335	14	24-221	9-788	30407	20	9-350	11-654	30479	22	19-882	12-200	30551	9	3-030	14-810	30623	18	13-652	15-330
30336	10	25-216	9-112	30408	19	9-530	11-451	30480	23	21-345	12-078	30552	12	3-611	14-664	30624	17	13-686	15-695
30337	37	25-795	9-944	30409	25	9-590	11-582	30481	26	23-554	12-518	30553	37	3-611	14-384	30625	21	13-700	15-760
30338	13	0-224	10-671	30410	42	10-543	11-909	30482	41	24-898	12-869	30554	31	3-687	14-486	30626	33	14-365	15-590
30339	23	0-387	10-277	30411	21	10-678	11-274	30483	19	25-707	12-282	30555	17	5-186	14-432	30627	10	14-668	15-811
30340	39	0-496	10-764	30412	11	11-088	11-408	30484	20	0-094	13-833	30556	21	5-262	14-788	30628	24	15-748	15-333
30341	31	1-874	10-980	30413	18	11-499	11-582	30485	40	0-504	13-408	30557	20	5-932	14-807	30629	22	15-956	15-462
30342	23	1-894	10-179	30414	22	11-816	11-942	30486	38	2-570	13-168	30558	18	6-016	14-352	30630	11	16-000	15-172
30343	33	2-752	10-568	30415	17	12-052	11-994	30487	20	2-580	13-904	30559	24	6-771	14-932	30631	22	16-375	15-856
30344	22	3-226	10-280	30416	30	12-590	11-600	30488	22	2-824	13-648	30560	13	7-061	14-869	30632	26	16-760	15-250
30345	13	3-352	10-128	30417	16	12-850	11-200	30489	27	3-386	13-048	30561	40	7-190	14-132	30633	22	16-918	15-307
30346	22	3-680	10-921	30418	38	12-898	11-780	30490	40	3-450	13-824	30562	26	8-039	14-033	30634	20	17-418	15-952
30347	10	3-696	10-199	30419	21	13-207	11-798	30491	21	4-577	13-852	30563	34	8-800	14-270	30635	24	17-612	15-664
30348	21	4-698	10-838	30420	19	13-604	11-038	30492	38	4-779	13-728	30564	25	9-058	14-796	30636	23	17-928	15-726
30349	19	5-348	10-300	30421	22	14-064	11-088	30493	37	4-928	13-669	30565	31	11-198	14-812	30637	23	18-241	15-018
30350	14	6-160	10-318	30422	11	14-661	11-897	30494	10	4-972	13-528	30566	12	12-650	14-556	30638	9	18-426	15-438
30351	19	6-200	10-776	30423	29	15-372	11-821	30495	15	6-202	13-133	30567	14	12-748	14-768	30639	34	19-755	15-135
30352	17	6-336	10-338	30424	26	15-698	11-938	30496	17	6-554	13-756	30568	31	12-898	14-423	30640	28	21-550	15-630
30353	19	7-809	10-240	30425	19	15-859	11-099	30497	11	6-563	13-395	30569	16	13-166	14-272	30641	15	21-631	15-503
30354	23	7-821	10-122	30426	15	16-108	11-725	30498	13	6-852	13-852	30570	16	13-441	14-509	30642	26	22-018	15-858
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30356	54	8-287	10-524	30428	33	17-016	11-814	30500	21	7-257	13-992	30572	22	14-498	14-452	30644	14	22-864	15-052
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30368	22	15-231	10-308	30440	10	25-501	11-698	30512	15	10-801	13-655	30584	10	17-988	14-530	30656	30	5-816	16-164
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30371	14	16-961	10-480	30443	18	0-284	12-064	30515	26	13-032	13-248	30587	10	18-331	14-632	30659	22	6-573	16-268
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30373	14	17-392	10-884	30445	11	1-442	12-620	30517	16	13-964	13-552	30589	39	18-492	14-102	30661	19	9-069	16-204
30374	17	18-392	10-740	30446	10	2-272	12-506	30518	22	14-161	13-060	30590	32	18-825	14-193	30662	40	9-290	16-556
30375	58	18-758	10-344	30447	34	2-918	12-998	30519	21	14-510	13-100	30591	16	19-414	14-042	30663	27	10-612	16-850
30376	52	18-880	10-314	30448	44	3-420	12-048	30520	15	14-538	13-560	30592	18	20-107	14-397	30664	23	10-889	16-031
30377	11	19-155	10-620	30449	21	3-644	12-146	30521	22	15-318	13-984	30593	28	20-217	14-202	30665	25	11-128	



30676	20	17-013	16-040	30748	17	24-630	17-534	30820	35	10-882	19-757	30892	30	19-716	20-002	30964	31	12-080	22-461
30677	12	17-128	16-749	30749	21	0-394	18-133	30821	10	11-752	19-190	30893	26	20-068	20-561	30965	10	12-254	23-576
30678	13	17-504	16-241	30750	32	1-246	18-778	30822	12	12-444	19-266	30894	24	20-450	20-370	30966	30	12-579	23-090
30679	10	18-014	16-910	30751	33	1-436	18-257	30823	28	12-856	19-762	30895	38	21-782	20-260	30967	11	12-978	22-883
30680	22	18-243	16-028	30752	14	1-524	18-000	30824*	47	12-930	19-525	30896	14	21-908	20-854	30968	37	13-896	22-021
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30682	22	18-543	16-628	30754	11	2-126	18-036	30826	15	13-038	19-298	30898	16	22-690	20-389	30970	30	14-965	22-100
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30684	10	19-732	16-310	30756	13	2-688	18-748	30828	33	14-010	19-318	30900	14	24-852	20-173	30972	14	16-448	22-240
30685	12	19-882	16-578	30757	35	3-174	18-219	30829	40	14-538	19-842	30901	27	25-327	20-618	30973	20	16-582	22-890
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30687	12	23-185	16-572	30759	13	5-021	18-230	30831	12	15-656	19-782	30903	14	1-591	21-140	30975	24	19-114	22-870
30688	12	23-832	16-800	30760	26	5-140	18-679	30832	12	15-800	19-186	30904	29	2-004	21-348	30976	27	19-204	22-342
30689	24	25-487	16-630	30761	29	5-482	18-882	30833	25	15-980	19-630	30905	26	2-148	21-298	30977	39	19-741	22-412
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30691	20	1-596	17-753	30763	16	6-158	18-450	30835	26	16-538	19-808	30907	23	3-646	21-878	30979	33	20-220	22-450
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30693	11	1-812	17-072	30765	23	6-722	18-666	30837	17	16-842	19-842	30909	18	4-870	21-530	30981	34	23-812	22-942
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30695	15	2-555	17-296	30767	13	6-948	18-627	30839	34	18-464	19-348	30911	30	5-042	21-182	30983*	104	25-156	22-328
30696	39	3-138	17-728	30768	17	7-190	18-968	30840	17	18-743	19-400	30912	36	5-168	21-959	30984	22	0-289	23-030
30697	38	3-412	17-944	30769	9	7-492	18-242	30841	25	19-475	19-030	30913	13	5-697	21-492	30985	24	0-488	23-174
30698	40	3-910	17-120	30770	23	7-734	18-158	30842	36	19-851	19-410	30914	14	5-958	21-062	30986	36	0-866	23-317
30699	20	4-359	17-298	30771*	41	7-786	18-648	30843	36	20-648	19-270	30915	17	7-050	21-060	30987	10	2-356	23-715
30700	19	4-392	17-841	30772	40	7-888	18-100	30844	20	21-237	19-912	30916	13	7-456	21-248	30988	13	2-614	23-549
30701	39	4-773	17-014	30773	21	9-109	18-916	30845	18	21-505	19-450	30917	39	7-926	21-915	30989	40	3-493	23-246
30702	23	4-798	17-208	30774	28	9-410	18-297	30846	11	23-156	19-876	30918	11	8-124	21-606	30990	12	3-748	23-472
30703	23	5-018	17-188	30775	24	9-898	18-381	30847	10	23-760	19-119	30919	15	8-785	21-238	30991	9	3-868	23-286
30704	23	5-634	17-836	30776	15	10-174	18-246	30848*	52	23-785	19-064	30920	23	8-866	21-932	30992	10	4-580	23-156
30705	39	5-743	17-068	30777	16	10-882	18-272	30849	32	24-992	19-639	30921	30	8-808	21-948	30993	29	5-732	23-670
30706	23	7-416	17-959	30778	37	11-118	18-811	30850	23	25-084	19-500	30922	17	9-870	21-158	30994	17	5-810	23-570
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30709	19	8-141	17-145	30781	20	13-727	18-300	30853	14	0-684	20-562	30925	22	12-138	21-059	30997	10	8-642	23-293
30710	27	8-946	17-734	30782	18	14-140	18-820	30854	18	0-669	20-452	30926	24	13-468	21-158	30998	24	9-236	23-792
30711	26	8-992	17-972	30783	28	14-745	18-996	30855	40	1-438	20-476	30927	23	13-716	21-416	30999	20	10-662	23-746
30712	16	9-542	17-596	30784	15	16-746	18-809	30856	12	1-784	20-600	30928	23	13-792	21-309	31000	23	11-100	23-432
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30714	26	11-265	17-356	30786	19	17-478	18-432	30858	13	2-798	20-320	30930	31	15-257	21-894	31002	32	11-685	23-016
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30716	16	11-691	17-471	30788	24	19-218	18-182	30860	19	4-024	20-626	30932	15	15-588	21-142	31004	23	12-364	23-812
30717	9	11-977	17-972	30789	16	19-598	18-040	30861	26	4-461	20-026	30933	13	15-596	21-224	31005	11	13-938	23-363
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30719	16	12-630	17-234	30791	40	20-910	18-608	30863	24	5-008	20-308	30935	22	17-688	21-668	31007	39	14-076	23-368
30720	10	13-361	17-067	30792	10	22-698	18-450	30864	13	5-040	20-400	30936	14	17-894	21-340	31008	12	15-296	23-662
30721	20	13-389	17-866	30793	20	22-752	18-094	30865	18	5-125	20-419	30937	29	18-051	21-209	31009	12	15-776	23-900
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30723	18	14-548	17-280	30795	26	24-303	18-738	30867	12	6-559	20-890	30939	13	19-059	21-180	31011	36	17-742	23-862
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30725	16	14-824	17-100	30797	23	25-696	18-114	30869	29	7-277	20-728	30941	13	20-546	21-405	31013	14	19-680	23-550
30726	24	15-578	17-049	30798	22	25-966	18-112	30870	29	9-556	20-096	30942	38	20-880	21-698	31014	18	19-964	23-523
30727	24	15-707	17-860	30799	31	0-580	19-002	30871	40	9-585	20-996	30943	15	21-268	21-170	31015	14	20-870	23-440
30728	13	15-826	17-561	30800	11	3-322	19-200	30872	38	9-647	20-758	30944	19	25-288	21-129	31016	12	21-178	23-169
30729	31	15-992	17-224	30801	20	3-376	19-032	30873	13	9-681	20-467	30945	28	25-983	21-283	31017	18	21-041	23-802
30730	26	16-014	17-359	30802	31	3-838	19-405	30874	14	10-033	20-422	30946	36	0-020	22-881	31018	19	24-817	23-518
30731	19	16-171	17-350	30803	13	3-901	19-790	30875	22	10-464	20-471	30947	32	0-141	22-164	31019	21	25-320	23-220
30732	22	16-318	17-949	30804	42	4-660	19-582	30876	18	10-826	20-049	30948	43	0-640	22-488	31020	10	25-750	23-062
30733	29	16-334	17-535	30805	19	5-737	19-164	30877	13	10-950	20-126	30949	18	1-330	22-066	31021	15	0-012	24-171
30734	12	17-242	17-110	30806	40	6-046	19-275	30878	16	11-442	20-779	30950	12	2-978	22-680	31022	32	0-752	24-212
30735	13	17-284	17-234	30807	17	6-539	19-442	30879	15	12-216	20-642	30951	15	4-618	22-568	31023	19	1-352	24-458
30736	38	17-977	17-034	30808	15	8-078	19-118	30880	18	12-618	20-728	30952	19	5-300	22-500	31024	47	3-637	24-106
30737	13	18-095	17-633	30809	27	8-180	19-930	30881	17	14-546	20-804	30953	26	6-232	22-106	31025			



R.A. 8 <sup>h</sup> 24 <sup>m</sup>			Plate 1535; 1920 Jan. 18.			Provisional Constants.			A B C			D E F			Mag. = 15.4 - 0.94√d				
No.	d	x	y	No.	d	x	y	No.	d	x	y	No.	d	x	y	No.	d	x	y
31036	19	11.735	24.220	31156	15	10.936	1.836	31228	23	10.294	3.794	31300	16	3.285	5.628	31372	19	11.735	24.220
31037	70	12.330	24.896	31157	44	11.207	1.072	31229	36	12.144	3.866	31301	12	4.048	5.434	31373	70	12.330	24.896
31038	25	12.332	24.629	31158	15	13.296	1.796	31230	18	14.396	3.046	31302	14	4.546	5.080	31039	38	13.028	24.751
31039	38	13.028	24.751	31159	32	13.610	1.487	31231	12	14.772	3.326	31303	22	4.684	5.712	31040	25	13.249	24.600
31040	25	13.249	24.600	31160	16	14.610	1.184	31232	37	18.110	3.024	31304	23	5.246	5.946	31041	38	14.540	24.574
31041	38	14.540	24.574	31161	40	15.145	1.586	31233	15	18.824	3.924	31305	21	5.579	5.458	31042	43	16.044	24.456
31042	43	16.044	24.456	31162	23	15.180	1.514	31234	12	19.026	3.944	31306	15	5.735	5.240	31043	16	17.170	24.911
31043	16	17.170	24.911	31163	13	15.441	1.728	31235	21	21.280	3.268	31307	12	6.663	5.886	31044	13	17.388	24.272
31044	13	17.388	24.272	31164	12	16.828	1.826	31236	22	21.575	3.256	31308	15	7.358	5.012	31045	17	19.125	24.443
31045	17	19.125	24.443	31165	40	17.260	1.840	31237	18	22.398	3.742	31309	16	7.450	5.606	31046	22	19.600	24.572
31046	22	19.600	24.572	31166	32	17.409	1.299	31238	17	22.452	3.526	31310	34	8.006	5.584	31047	17	19.721	24.978
31047	17	19.721	24.978	31167	11	18.291	1.256	31239	44	22.445	3.432	31311	18	8.076	5.108	31048	23	19.796	24.300
31048	23	19.796	24.300	31168	23	20.288	1.796	31240	14	23.740	3.897	31312	13	8.634	5.555	31049	16	20.838	24.154
31049	16	20.838	24.154	31169	17	20.626	1.844	31241	12	24.402	3.949	31313	36	8.768	5.348	31050	45	21.682	24.593
31050	45	21.682	24.593	31170	36	21.569	1.372	31242	16	24.590	3.940	31314	16	8.860	5.349	31051	11	22.031	24.107
31051	11	22.031	24.107	31171	26	22.810	1.436	31243	15	25.104	3.254	31315	18	9.108	5.624	31052	25	23.157	24.472
31052	25	23.157	24.472	31172	18	24.758	1.174	31244	22	25.908	3.360	31316	12	9.272	5.736	31053	11	25.268	24.082
31053	11	25.268	24.082	31173	17	24.790	1.494	31245	15	0.177	4.288	31317	14	11.100	5.856	31054	29	0.326	25.743
31054	29	0.326	25.743	31174	22	24.818	1.273	31246	12	0.198	4.886	31318	20	11.190	5.206	31055	16	1.741	25.178
31055	16	1.741	25.178	31175	24	0.905	2.046	31247	38	0.346	4.042	31319	15	11.274	5.164	31056	14	2.013	25.458
31056	14	2.013	25.458	31176	15	2.964	2.645	31248	32	0.400	4.785	31320	15	11.556	5.148	31057	18	2.742	25.180
31057	18	2.742	25.180	31177	62	3.317	2.330	31249	30	0.720	4.796	31321	12	12.513	5.754	31058	17	2.961	25.094
31058	17	2.961	25.094	31178	23	4.246	2.546	31250	12	1.415	4.886	31322	34	12.688	5.816	31059	13	4.856	25.017
31059	13	4.856	25.017	31179	17	4.614	2.076	31251	33	1.745	4.962	31323	18	12.941	5.294	31060	32	6.018	25.528
31060	32	6.018	25.528	31180	13	4.640	2.814	31252	16	2.134	4.612	31324	12	12.982	5.307	31061	31	6.079	25.240
31061	31	6.079	25.240	31181	36	5.285	2.484	31253	17	2.400	4.038	31325	14	13.226	5.891	31062	14	7.371	25.043
31062	14	7.371	25.043	31182	16	6.105	2.993	31254	17	2.532	4.254	31326	18	13.246	5.091	31063	19	8.366	25.042
31063	19	8.366	25.042	31183	46	6.474	2.857	31255	15	2.658	4.375	31327	19	13.808	5.798	31064	13	8.732	25.272
31064	13	8.732	25.272	31184	16	6.872	2.377	31256	56	3.403	4.204	31328	14	14.805	5.787	31065	28	9.486	25.534
31065	28	9.486	25.534	31185	46	7.249	2.710	31257	12	5.502	4.654	31329	17	15.024	5.330	31066	20	9.709	25.328
31066	20	9.709	25.328	31186	40	7.898	2.032	31258	23	5.702	4.394	31330	39	15.238	5.916	31067	47	10.590	25.095
31067	47	10.590	25.095	31187	23	8.084	2.604	31259	18	6.444	4.886	31331	20	15.534	5.144	31068	16	10.770	25.278
31068	16	10.770	25.278	31188	24	8.170	2.645	31260	14	6.834	4.768	31332	23	15.870	5.435	31069	24	12.638	25.928
31069	24	12.638	25.928	31189	12	8.221	2.805	31261	23	7.094	4.843	31333	16	16.323	5.826	31070	41	13.878	25.418
31070	41	13.878	25.418	31190	14	9.458	2.454	31262	17	7.406	4.227	31334	13	16.928	5.394	31071	41	14.340	25.600
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35400	23	5-251	9-664	35472	15	13-706	12-814	35544	14	22-241	14-041	35616	14	15-282	17-830	35688	16	3-566	22-515
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19-146

23-392

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15

20-146

23-066

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21-146

23-582

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0-092

24-976

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0-634

24-040

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35728

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24-474

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35733

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24-966

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15-891

24-284

35740

17

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24-756

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24-804

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20-654

24-615

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7-844

25-695

35759

16

8-638

25-948

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16

8-686

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25-168

35762

16

10-536

25-469

35763

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25-711

35764

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13-878

25-575

35765

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15-217

25-816

35766

16

15-324

25-610

35767

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15-592

25-585

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17-412

25-170

35769

17

19-984

25-945

35770

16

22-884

25-145

35771

15

23-500

25-008

R.A. 9<sup>h</sup> 12<sup>m</sup>

Plate 1540 ; 1920 Jan. 19.

Provisional Constants.

A

B

C

-01759

-00705

-0903

D

E

F

-00700

-01763

-3648

Mag. = 16-0 - 0.94  $\sqrt{d}$

No.

d

x

y

35801

35

4-958

0-055

35802

11

6-129

0-330

35803

20

7-368

0-620

35804

13

7-474

0-643

35805

18

8-026

0-700

35806

13

8-688

0-218

35807

19

9-103

0-056

35808

16

10-246

0-450

35809

11

10-364

0-110

35810

11

15-746

0-085

35811

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15-779

0-455

35812

11

15-856

0-847

35813

25

16-000

0-874

35814

10

16-080

0-090

35815

12

21-550

0-429

35816

17

21-606

0-074

35817

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23-596

0-480

35818

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25-694

0-756

35819

21

0-488

1-906

35820

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1-400

35821

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1-262

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3-680

1-633

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15

5-822

1-033

35824

14

7-086

1-333

35825

58

10-915

1-735

35826

12

11-300

1-846

35827

18

11-917

1-836

35828

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14-227

1-453

35829

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15-080

1-159

35830

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15-384

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35831

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18-633

1-494

35833

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18-984

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35836

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24-338

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25-690

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35838

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3-838

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2-243

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7-291

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35848

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13-614

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13-907

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35851

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35852

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16-330

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35853

14

16-612

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18-100

2-692

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3-337

35866

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12-260

3-160

35867

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12-496

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12-900

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17-383

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22-034

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39394*	54	23-210	22-332	R.A. 10 <sup>h</sup> 16 <sup>m</sup>			39506	13	25-655	4-703	39578	31	18-088	10-068	39650	20	4-334	16-272	
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40124*	56	21-134	21-790					40279	11	7-580	5-236								

40430	23	5°113	14°250	40502	24	24°268	18°345	40574*	56	21°314	23°352	40667	33	0°406	2°526	40739	12	6°665	8°381
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40432	10	7°429	14°823	40504	12	1°568	19°563	40576	11	25°045	23°517	40669	13	1°968	2°524	40741	26	7°834	8°113
40433	14	11°160	14°310	40505	13	4°036	19°088	40577	10	1°263	24°908	40670	12	3°446	2°716	40742	11	8°024	8°714
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40441	18	21°924	14°363	40513	20	15°231	19°297	40585	26	16°366	24°368	40678	42	15°286	2°288	40750	32	25°428	8°456
40442	10	23°380	14°440	40514	12	17°400	19°528	40586	38	16°485	24°530	40679	24	18°314	2°006	40751	50	25°514	8°036
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40445	10	24°134	14°908	40517	25	18°365	19°538	40589	20	22°534	24°403	40682	15	6°140	3°774	40754	16	2°214	9°486
40446	16	25°161	14°002	40518	12	18°610	19°388	40590	82	1°079	25°404	40683	24	7°432	3°273	40755	13	3°962	9°734
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7-934	41931	41	5-426	11-796	42003	21	20-052	15-979	42075	22	9-604	20-080	42147	26	16-030	25-750	42243	23	4-114	3-860
7-264	41932	34	6-080	11-050	42004	160	20-399	15-814	42076	36	11-357	20-672	42148	40	16-982	25-674	42244	33	5-654	3-936
7-644	41933	19	6-726	11-320	42005	15	22-614	15-730	42077	35	13-428	20-777	42149	16	17-160	25-680	42245	25	5-873	3-222
7-351	41934	12	6-796	11-060	42006	12	0-870	16-710	42078	15	14-013	20-599	42150	24	17-486	25-348	42246	11	8-514	3-106
7-593	41935	18	11-930	11-614	42007	26	2-597	16-955	42079	26	14-306	20-945	42151	28	17-600	25-023	42247	29	9-346	3-272
7-718	41936	15	12-090	11-690	42008	18	5-330	16-370	42080	14	15-174	20-344	42152	17	21-616	25-090	42248	26	9-420	3-114
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8-313	41944	15	17-626	11-396	42016	22	12-493	16-485	42088	19	6-646	21-348	42160	11	12-134	25-122	42256	55	12-134	4-456
8-676	41945	13	19-484	11-864	42017	16	15-980	16-440	42089	19	11-226	21-348	42161	21	13-375	25-122	42257	21	13-375	4-519
8-536	41946	14	20-836	11-065	42018	56	16-110	16-087	42090	12	12-446	21-904	42162	11	16-512	25-122	42258	11	16-512	4-974
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8-620	41948	21	1-830	12-027	42020	19	17-253	16-326	42092	16	14-422	21-854	42164	48	20-280	25-122	42260	48	20-280	4-658
8-910	41949	13	2-133	12-372	42021	15	18-090	16-802	42093	18	14-980	21-428	42165	48	4-670	25-122	42261	48	4-670	5-602
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8-520	41951	16	3-994	12-730	42023	14	19-005	16-694	42095	25	18-337	21-070	42167	48	8-863	25-122	42263	48	8-863	5-464
8-870	41952	29	4-517	12-757	42024	18	20-147	16-446	42096	22	20-446	21-030	42168	48	9-022	25-122	42264	48	9-022	5-043
8-555	41953	27	7-724	12-474	42025	12	22-994	16-913	42097	20	22-390	21-817	42169	48	10-596	25-122	42265	48	10-596	5-924
8-496	41954	20	9-408	12-550	42026	27	25-332	16-560	42098	18	23-176	21-562	42170	48	11-097	25-122	42266	48	11-097	5-890
8-187	41955	46	10-803	12-700	42027	12	0-106	17-332	42099	15	9-936	22-224	42171	48	11-100	25-122	42267	48	11-100	5-918
8-770	41956	18	11-290	12-174	42028	14	1-132	17-282	42100	22	1-534	22-386	42172	48	13-152	25-122	42268	48	13-152	5-282
8-255	41957	25	12-898	12-983	42029	28	1-700	17-954	42101	26	6-523	22-524	42173	48	13-014	25-122	42269	15	13-014	5-977
8-911	41958	25	13-374	12-418	42030	18	2-379	17-348	42102	56	9-086	22-856	42174	48	15-502	25-122	42270	10	15-502	5-203
8-654	41959	25	14-202	12-856	42031	25	7-053	17-328	42103	42	16-202	22-022	42175	48	17-500	25-122	4			

R.A. 11<sup>h</sup> 20<sup>m</sup>

Plate 1577; 1920 Feb. 14.

## Provisional Constants.

A B C  
 -01756 +01125 -00676

D E F  
 -01119 -01766 -1503

Mag. = 16.6 - 0.94√d

No.	d	x	y
42285	32	17-583	6-549
42286	17	20-824	6-750
42287	13	21-588	6-832
42288	19	3-150	7-390
42289	15	3-356	7-046
42290	12	5-256	7-730
42291	42	6-408	7-826
42292	10	6-644	7-382
42293	17	6-991	7-633
42294	25	10-871	7-192
42295	26	11-230	7-768
42296	14	12-140	7-468
42297	36	14-366	7-970
42298	59	14-906	7-560
42299	39	17-316	7-524
42300	46	21-067	7-303
42301	12	21-628	7-033
42302	10	23-553	7-416
42303	86	25-786	7-052
42304	10	0-533	8-552
42305	28	1-588	8-656
42306	28	2-717	8-968
42307	23	8-302	8-410
42308	10	9-627	8-850
42309	12	9-716	8-172
42310	42	10-254	8-204
42311	28	12-698	8-776
42312	10	15-327	8-862
42313	11	18-498	8-346
42314	50	20-057	8-476
42315	21	21-142	8-116
42316	25	21-734	8-042
42317	31	22-441	8-634
42318	30	22-510	8-018
42319	20	24-818	8-102
42320	10	25-382	8-542
42321	11	25-652	8-362
42322	32	1-200	9-105
42323	15	2-004	9-476
42324	17	2-848	9-915
42325	10	5-497	9-450
42326	49	7-504	9-624
42327	19	7-950	9-578
42328	48	9-538	9-359
42329	10	9-730	9-691
42330	20	13-918	9-400
42331	31	16-892	9-278
42332	23	17-544	9-516
42333	11	20-171	9-068
42334	35	21-598	9-680
42335	40	22-218	9-694
42336	12	22-687	9-738
42337	20	2-732	10-055
42338	23	3-188	10-590
42339	10	3-750	10-120
42340	10	4-488	10-300
42341	10	6-480	10-552
42342	26	6-540	10-726
42343	30	6-681	10-217
42344	14	7-804	10-507
42345	43	8-350	10-636
42346	28	10-336	10-766
42347	18	11-002	10-752
42348	10	11-072	10-630
42349	24	13-076	10-978
42350	80	15-298	10-934
42351	10	15-393	10-366
42352	13	16-030	10-132
42353	30	16-810	10-630
42354	11	18-149	10-288
42355	11	19-339	10-498
42356	31	19-916	10-717
20-607	10	10-578	42357
0-428	20	11-864	42358
3-046	29	11-943	42359
5-857	12	11-368	42360
7-551	29	11-081	42361
7-707	37	11-520	42362
10-093	13	11-982	42363
11-797	37	11-218	42364
14-744	20	11-528	42365
15-817	24	11-122	42366
16-584	22	11-281	42367
17-622	13	11-938	42368
19-940	10	11-892	42369
19-957	10	11-716	42370
22-890	25	11-502	42371
24-844	41	11-820	42372
25-542	26	11-660	42373
1-466	10	12-816	42374
8-930	11	12-016	42375
12-663	29	12-382	42376
16-246	11	12-387	42377
16-558	12	12-348	42378
19-127	26	12-848	42379
22-704	13	12-294	42380
23-592	21	12-244	42381
24-020	17	12-532	42382
4-478	15	13-938	42383
8-429	14	13-894	42384
13-186	13	13-510	42385
17-114	17	13-115	42386
17-423	11	13-391	42387
18-341	11	13-078	42388
20-008	10	13-766	42389
20-484	36	13-790	42390
21-900	10	13-032	42391
0-507	25	14-100	42392
0-856	28	14-567	42393
1-688	24	14-306	42394
5-770	22	14-661	42395
5-778	42	14-716	42396
6-816	22	14-952	42397
11-231	11	14-858	42398
14-498	12	14-798	42399
13-132	17	14-196	42400
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15-534	23	14-016	42402
16-786	22	14-694	42403
18-410	19	14-661	42404
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23-008	23	14-069	42406
23-580	20	14-220	42407
0-527	12	15-642	42408
4-062	15	15-177	42409
6-056	23	15-686	42410
7-071	20	15-984	42411
10-598	17	15-934	42412
16-662	38	15-142	42413
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9-342	91	16-700	42417
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15-764	19	16-678	42419
16-172	20	16-477	42420
17-352	23	16-780	42421
18-707	29	16-768	42422
20-153	27	16-194	42423
21-875	14	16-353	42424
22-326	40	16-834	42425
22-809	23	16-676	42426
0-762	18	17-780	42427
3-846	82	17-732	42428
3-958	12	17-706	42429
5-448	10	17-646	42430
7-520	11	17-670	42431
8-036	10	17-412	42432
8-562	37	17-062	42433
11-141	37	17-332	42434
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13-605	14	17-229	42436
13-894	16	17-123	42437
14-056	12	17-958	42438
15-922	11	17-766	42439
15-976	38	17-880	42440
18-002	13	17-953	42441
20-1860	20	17-588	42442
21-386	39	17-106	42443
22-074	39	17-442	42444
22-402	10	17-932	42445
23-042	43	17-922	42446
24-546	28	17-922	42447
25-986	34	17-584	42448
1-190	11	18-570	42449
7-752	17	18-428	42450
5-278	43	18-007	42451
5-380	10	18-066	42452
5-899	10	18-388	42453
6-266	19	18-409	42454
6-960	47	18-850	42455
10-018	38	18-960	42456
11-371	17	18-152	42457
11-566	18	18-771	42458
12-271	10	18-630	42459
12-583	40	18-976	42460
12-764	19	18-812	42461
13-063	13	18-744	42462
17-516	10	18-421	42463
18-014	12	18-258	42464
18-062	46	18-993	42465
18-930	38	18-617	42466
20-705	12	18-252	42467
23-294	17	18-148	42468
25-790	15	18-750	42469
25-018	12	18-552	42470
2-056	19	19-442	42471
4-596	18	19-818	42472
7-660	21	19-350	42473
18-767	19	19-826	42474
20-286	11	19-780	42475
21-183	15	19-800	42476
22-140	31	19-052	42477
23-352	37	19-492	42478
0-186	15	20-038	42479
0-942	39	20-992	42480
6-307	12	20-592	42481
6-888	13	20-528	42482
7-880	16	20-590	42483
8-812	22	20-652	42484
9-698	15	20-075	42485
9-944	10	20-602	42486
11-352	11	20-768	42487
11-542	20	20-302	42488
15-348	16	20-022	42489
19-487	16	20-962	42490
19-520	36	20-664	42491
20-610	24	20-304	42492
23-372	60	20-129	42493
25-140	14	20-780	42494
0-353	21	21-731	42495
1-138	19	21-470	42496
3-388	13	21-560	42497
6-035	37	21-000	42498
6-134	32	21-708	42499
6-323	11	21-206	42500
7-602	10	21-849	42501
7-889	23	21-170	42502
9-038	13	21-942	42503
12-626	26	21-568	42504
17-938	28	21-034	42505
19-218	19	21-360	42506
20-208	13	21-762	42507
21-518	29	21-668	42508
21-917	18	21-922	42509
22-618	46	21-798	42510
23-934	28	21-540	42511
24-580	29	21-051	42512
25-810	29	21-012	42513
1-246	21	22-892	42514
2-359	10	22-702	42515
6-078	16	22-609	42516
9-138	36	22-780	42517
15-232	29	22-014	42518
16-422	27	22-802	42519
20-042	23	22-300	42520
21-698	13	22-446	42521
22-684	10	22-123	42522
23-856	17	22-019	42523
25-955	44	22-676	42524
3-814	40	23-934	42525
3-894	28	23-790	42526
6-752	12	23-008	42527
10-442	26	23-952	42528
10-516	17	23-680	42529
11-241	22	23-541	42530
13-342	15	23-415	42531
13-915	25	23-250	42532
15-277	25	23-708	42533
15-674	10	23-466	42534
16-198	25	23-569	42535
16-726	12	23-835	42536
20-809	24	23-196	42537
4-653	14	24-016	42538
5-738	10	24-096	42539
6-228	20	24-350	42540
9-060	10	24-530	42541
13-028	45	24-372	42542
13-503	31	24-752	42543
16-192	11	24-743	42544
17-993	12	24-392	42545
25-598	32	24-102	42546
4-866	12	25-068	42547
6-908	25	25-129	42548
6-954	51	25-342	42549
9-970	35	25-286	42550
13-696	34	25-378	42551
15-387	29	25-472	42552
21-000	13	25-170	42553
23-906	12	25-369	42554
25-906	20	25-982	42555

42656	17	15.894	5.080	42728	18	15.570	11.095	42800	29	16.714	16.360	42872	30	13.190	21.680	R.A. 11 <sup>h</sup> 28 <sup>m</sup> Plate 1590; 1920 Feb. 16.  Provisional Constants.  A B C -0.1694 +0.1028 -2569  D E F -0.1030 -0.1720 -1907  Mag. = 16.5 - 0.94√d
42657	44	16.960	5.677	42729	38	15.678	11.670	42801	25	17.768	16.170	42873	17	15.892	21.898	
42658	18	18.200	5.148	42730	15	16.050	11.195	42802	13	19.210	16.191	42874	14	0.050	22.072	
42659	35	18.696	5.875	42731	15	17.470	11.962	42803	39	20.400	16.109	42875	12	0.243	22.847	
42660	23	19.710	5.470	42732	25	17.750	11.200	42804	21	22.890	16.762	42876	17	0.450	22.316	
42661	13	5.845	6.032	42733	13	17.904	11.070	42805	43	0.518	17.837	42877	53	1.144	22.180	
42662	21	6.230	6.570	42734	24	18.112	11.485	42806	42	0.760	17.225	42878	17	2.392	22.380	
42663	18	7.174	6.385	42735	29	22.632	11.112	42807	26	1.241	17.055	42879	51	4.500	22.095	
42664	13	8.272	6.154	42736	16	24.330	11.570	42808	35	4.432	17.904	42880	18	8.950	22.460	
42665	26	8.834	6.737	42737	38	25.862	11.149	42809	29	5.435	17.018	42881	21	10.142	22.196	
42666	14	9.005	6.904	42738	22	1.946	12.791	42810	18	7.390	17.480	42882	34	12.437	22.040	
42667	12	9.430	6.390	42739	14	2.375	12.891	42811	21	9.492	17.512	42883	30	12.874	22.025	
42668	28	10.002	6.066	42740	40	3.184	12.162	42812	10	17.980	17.668	42884	26	14.248	22.966	
42669	28	11.622	6.051	42741	11	3.314	12.780	42813	37	20.280	17.614	42885	26	16.107	22.198	
42670	36	12.311	6.226	42742	33	4.534	12.059	42814	44	1.496	18.296	42886	13	16.880	22.571	
42671	16	13.682	6.008	42743	13	6.993	12.957	42815	27	3.002	18.270	42887	25	17.374	22.038	
42672	15	21.350	6.790	42744	20	7.062	12.384	42816	13	4.387	18.873	42888	13	22.330	22.140	
42673	13	21.503	6.632	42745	15	8.458	12.083	42817	15	4.580	18.264	42889	16	22.530	22.180	
42674	19	24.744	6.600	42746	12	10.856	12.850	42818	28	4.870	18.470	42890	27	25.272	22.188	
42675	31	25.543	6.654	42747	26	11.209	12.743	42819	15	4.918	18.423	42891	17	7.666	23.236	
42676	10	2.036	7.380	42748	26	13.163	12.340	42820	24	5.551	18.870	42892	25	9.454	23.398	
42677	102	4.024	7.380	42749	33	15.018	12.400	42821	16	5.844	18.220	42893	25	14.494	23.144	
42678	38	5.415	7.890	42750	34	15.620	12.422	42822	13	7.544	18.598	42894	16	14.681	23.754	
42679	55	6.666	7.145	42751	23	19.141	12.138	42823	13	7.942	18.817	42895	26	19.224	23.620	
42680	11	6.836	7.349	42752	21	21.800	12.926	42824	27	8.020	18.068	42896	67	20.492	23.864	
42681	61	11.234	7.059	42753	19	25.229	12.145	42825	13	9.725	18.910	42897	32	20.920	23.550	
42682	27	11.325	7.740	42754	40	25.612	12.610	42826	37	10.865	18.436	42898	46	21.436	23.550	
42683	29	13.426	7.130	42755	26	4.502	13.719	42827	10	13.430	18.548	42899	18	21.666	23.634	
42684	33	14.090	7.745	42756	11	13.340	13.140	42828	11	19.440	18.418	42900	40	4.180	24.736	
42685	29	14.220	7.310	42757	14	11.782	13.071	42829	18	19.528	18.338	42901	28	6.538	24.220	
42686	40	15.170	7.580	42758	14	12.684	13.331	42830	18	19.540	18.610	42902	36	7.476	24.264	
42687	32	16.120	7.380	42759	37	17.222	13.752	42831	49	24.790	18.012	42903	26	8.446	24.818	
42688	16	16.300	7.496	42760	28	20.152	13.658	42832	30	0.617	19.446	42904	14	8.651	24.161	
42689	12	19.520	7.035	42761	13	20.733	13.144	42833	36	1.836	19.862	42905	50	9.037	24.520	
42690	38	25.390	7.616	42762	26	21.949	13.708	42834	15	4.264	19.076	42906	29	10.860	24.500	
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42719	30	20.081	10.200	42791	19	19.926	15.306	42863	28	22.255	20.983					
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Plate 1601; 1920 Feb. 18.

Provisional Constants.

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				44204*	44	7-386	5-164	44276*	63	10-297	10-472	44348	25	11-672	17-698	44420	14	21-964	24-752
				44205	15	13-072	5-858	44277	13	14-933	10-363	44349	37	13-356	17-940	44421*	42	2-035	25-522
				44206	28	13-984	5-429	44278*	54	18-470	10-376	44350	19	19-222	17-724	44422	34	3-976	25-886
				44207	39	14-618	5-694	44279	25	18-614	10-932	44351*	46	25-294	17-082	44423	22	4-626	25-852
				44208	31	15-830	5-704	44280	16	20-835	10-821	44352	35	25-912	17-728	44424	12	6-348	25-118
				44209	12	21-084	5-674	44281	26	21-361	10-308	44353	31	1-279	18-282	44425	35	10-032	25-728
				44210	19	25-456	5-880	44282	12	23-310	10-788	44354	37	7-697	18-420	44426	23	10-330	25-354
				44211	13	5-392	6-040	44283	13	23-384	10-570	44355	13	8-412	18-908	44427	12	12-340	25-124
				44212	32	5-461	6-988	44284	22	24-736	10-695	44356	20	16-927	18-772	44428	48	13-000	25-223
				44213	27	6-792	6-299	44285*	49	3-159	11-524	44357	44	17-356	18-267	44429	14	14-632	25-590
				44214	18	8-447	6-490	44286	39	4-834	11-104	44358	13	23-299	18-887	44430	14	14-730	25-025
				44215	35	9-069	6-760	44287	15	4-838	11-346	44359	21	23-482	18-372	44431	35	16-392	25-250
				44216	16	11-452	6-198	44288*	39	5-200	11-609	44360	15	23-750	18-660	44432	36	17-816	25-686
				44217	42	12-810	6-111	44289	33	5-622	11-724	44361	11	1-118	19-708	44433	10	19-626	25-417
				44218	13	14-614	6-660	44290	11	9-762	11-108	44362*	51	2-682	19-439	44434	12	20-314	25-296
				44219	31	15-498	6-868	44291*	49	13-780	11-174	44363	14	6-008	19-276	44435	25	20-710	25-889
				44220	10	17-874	6-069	44292	21	14-714	11-132	44364	10	6-180	19-536	44436	32	22-216	25-692
				44221	21	18-808	6-948	44293	10	17-405	11-492	44365	12	6-940	19-099	44437	11	22-450	25-228
				44222	16	20-091	6-926	44294	31	18-570	11-472	44366	33	8-764	19-709	44438	49	22-977	25-450
				44223	13	20-834	6-368	44295	26	21-234	11-527	44367	44	11-448	19-022	44439	32	24-789	25-692
				44224*	44	21-164	6-953	44296	10	6-040	12-720	44368	12	12-262	19-862				
				44225	14	21-644	6-750	44297	16	7-762	12-854	44369	22	12-348	19-314				
				44226	11	21-811	6-687	44298	15	9-527	12-618	44370	32	12-858	19-184				
				44227	24	0-490	7-687	44299	15	11-432	12-659	44371	14	13-502	19-657				
				44228	38	1-761	7-528	44300	15	15-583	12-260	44372	30	15-990	19-241				
				44229	21	4-374	7-962	44301	21	15-889	12-726	44373*	49	17-800	19-025				
				44230	36	4-938	7-492	44302	31	19-331	12-789	44374	18	18-376	19-598				
				44231*	57	6-986	7-950	44303*	48	21-222	12-790	44375	25	1-200	20-522				
				44232	20	8-106	7-227	44304	60	22-755	12-120	44376	10	11-514	20-848				
				44233	11	8-904	7-890	44305	20	23-684	12-306	44377	23	21-446	20-586				
				44234	13	9-062	7-152	44306*	46	3-438	13-083	44378	19	24-076	20-244				
				44235	10	10-012	7-771	44307	29	3-958	13-817	44379	18	1-263	21-218				
				44236	16	11-449	7-230	44308	22	10-102	13-952	44380	19	6-896	21-946				
				44237	38	11-864	7-394	44309	43	12-778	13-070	44381	17	9-876	21-500				
				44238	25	13-508	7-983	44310	21	18-175	13-237	44382	32	10-010	21-418				
				44239	28	19-148	7-276	44311	28	21-104	13-200	44383	15	10-678	21-796				
				44240	10	19-946	7-169	44312*	48	21-908	13-702	44384	37	12-730	21-888				
				44241	10	20-386	7-780	44313	13	24-788	13-282	44385	22	15-480	21-824				
				44242	14	21-324	7-522	44314	31	25-150	13-680	44386	11	20-088	21-266				
				44243	24	21-910	7-738	44315	34	25-678	13-238	44387*	49	2-154	22-085				
				44244	36	22-488	7-398	44316	25	1-028	14-455	44388	20	3-898	22-026				
				44245	14	25-992	7-040	44317	34	2-156	14-642	44389	12	4-478	22-979				
				44246	30	0-067	8-544	44318	11	11-278	14-896	44390	18	6-274	22-577				
				44247	10	2-124	8-852	44319	17	11-314	14-116	44391	15	11-019	22-553				
				44248	37	5-114	8-710	44320	17	12-642	14-778	44392	24	14-772	22-092				
				44249	14	5-678	8-442	44321	19	13-438	14-917	44393	29	18-871	22-792				
				44250	29	5-682	8-172	44322	26	13-715	15-515	44394	22	22-514	22-966				
				44251	39	6-840	8-847	44323	26	14-700	14-970	44395*	59	24-370	22-211				
				44252	23	15-844	8-364	44324	10	20-972	14-906	44396	16	24-718	22-522				
				44253	31	17-740	8-152	44325	32	21-429	14-420	44397	21	24-738	22-492				
				44254	13	23-338	8-602	44326	16	22-328	14-574	44							

44460	28	25.544	0.304	44532	11	23.514	5.924	44604	23	2.850	11.000	44676	24	14.560	16.478	44748	41	14.338	22.806
44461	12	3.456	1.583	44533	14	23.819	5.274	44605	17	4.036	11.581	44677	36	18.112	16.380	44749	10	16.332	22.501
44462	11	4.038	1.892	44534	12	23.847	5.328	44606	40	4.474	11.604	44678	39	19.612	16.793	44750	12	19.282	22.534
44463	22	4.865	1.819	44535	15	24.644	5.370	44607	28	6.010	11.456	44679	32	24.406	16.830	44751	96	19.990	22.109
44464	10	6.659	1.102	44536	45	25.124	5.616	44608	18	6.182	11.624	44680	42	3.449	17.384	44752	28	24.155	22.328
44465	23	6.932	1.349	44537	13	5.080	6.739	44609	24	7.885	11.280	44681	24	4.794	17.399	44753	20	25.484	22.790
44466	28	7.160	1.656	44538	22	8.092	6.998	44610	15	9.710	11.610	44682	13	5.936	17.442	44754	21	0.716	23.286
44467	42	7.732	1.943	44539	18	12.338	6.472	44611	23	10.373	11.970	44683	35	6.446	17.149	44755	11	2.108	23.944
44468	16	7.745	1.284	44540	30	13.278	6.330	44612	24	11.148	11.424	44684	12	8.220	17.928	44756	20	3.190	23.180
44469	15	9.993	1.715	44541	24	15.750	6.513	44613	22	12.438	11.080	44685	19	11.352	17.871	44757	43	4.416	23.746
44470	26	12.032	1.802	44542	34	15.858	6.010	44614	20	17.180	11.963	44686	13	11.638	17.688	44758	12	10.176	23.984
44471	16	12.304	1.199	44543	48	20.069	6.818	44615	12	21.522	11.796	44687	18	13.058	17.852	44759	11	10.223	23.866
44472	25	12.570	1.485	44544	24	21.100	6.808	44616	11	22.356	11.308	44688	10	13.694	17.684	44760	16	13.480	23.992
44473	45	14.039	1.864	44545	24	22.350	6.900	44617	30	22.784	11.836	44689	35	14.978	17.400	44761	23	14.494	23.558
44474	43	14.830	1.076	44546	10	23.515	6.184	44618	24	24.310	11.341	44690	13	18.246	17.366	44762	16	16.144	23.090
44475	29	14.833	1.092	44547	12	25.242	6.406	44619	56	0.874	12.440	44691	27	19.026	17.896	44763	22	16.311	23.408
44476	19	15.566	1.674	44548	35	0.580	7.718	44620	26	1.811	12.620	44692	12	19.054	17.812	44764	27	17.102	23.196
44477	27	15.846	1.386	44549	33	0.082	7.335	44621	35	4.304	12.001	44693	24	1.650	18.686	44765	20	21.002	23.969
44478	22	15.918	1.280	44550	23	5.305	7.614	44622	22	7.302	12.686	44694	22	1.924	18.973	44766	37	23.426	25.573
44479	15	16.642	1.407	44551	32	6.190	7.005	44623	30	8.193	12.388	44695	37	4.076	18.024	44767	45	24.685	23.844
44480	36	16.840	1.759	44552	12	7.274	7.196	44624	29	5.855	12.790	44696	34	6.324	18.896	44768	34	7.323	24.616
44481	20	18.436	1.702	44553	29	7.436	7.796	44625	45	10.361	12.322	44697	24	6.458	18.035	44769	13	9.930	24.771
44482	37	18.840	1.866	44554	12	7.481	7.123	44626	23	13.816	12.475	44698	12	10.182	18.842	44770	28	10.461	24.491
44483	38	22.656	1.286	44555	44	8.584	7.718	44627	14	14.322	12.021	44699	13	10.214	18.330	44771	31	14.757	24.441
44484	19	23.575	1.566	44556	20	10.213	7.556	44628	23	15.972	12.847	44700	37	10.434	18.280	44772	29	16.330	24.218
44485	11	25.444	1.414	44557	19	10.526	7.218	44629	20	17.994	12.206	44701	35	10.778	18.466	44773	30	18.666	24.121
44486	43	0.167	2.702	44558	20	17.876	7.760	44630	20	19.542	12.223	44702	25	12.402	18.502	44774	12	19.384	24.688
44487	49	4.626	2.738	44559	13	20.178	7.342	44631	43	20.456	12.058	44703	21	12.960	18.935	44775	12	0.180	25.076
44488	32	6.026	2.246	44560	10	21.417	7.264	44632	23	2.924	13.588	44704	33	14.644	18.246	44776	12	0.671	25.550
44489	13	6.190	2.272	44561	31	21.822	7.010	44633	33	3.285	13.985	44705	40	19.511	18.658	44777	46	1.190	25.768
44490	15	7.766	2.496	44562	31	21.858	7.036	44634	36	3.811	13.536	44706	37	21.061	18.536	44778	34	3.010	25.998
44491	13	7.945	2.526	44563	11	22.532	7.172	44635	150	4.600	13.562	44707	24	24.585	18.840	44779	16	4.506	25.382
44492	27	9.446	2.637	44564	25	25.222	7.507	44636	28	11.086	13.957	44708	19	1.470	19.200	44780	135	7.205	25.118
44493	12	10.414	2.614	44565	20	0.006	8.061	44637	12	11.684	13.624	44709	17	4.439	19.961	44781	13	8.853	25.066
44494	12	12.044	2.237	44566	19	1.440	8.918	44638	23	15.400	13.404	44710	37	5.720	19.682	44782	25	12.548	25.489
44495	14	12.506	2.036	44567	34	2.456	8.878	44639	11	15.790	13.520	44711	29	8.498	19.272	44783	32	15.050	25.714
44496	27	15.780	2.664	44568	28	4.874	8.900	44640	12	21.054	13.310	44712	17	8.848	19.014	44784	17	17.726	25.484
44497	32	23.288	2.716	44569	25	6.266	8.515	44641	24	21.471	13.760	44713	11	16.120	19.571	44785	10	20.802	25.843
44498	12	23.338	2.342	44570	21	7.329	8.409	44642	13	24.244	13.872	44714	13	16.058	19.763	44786	15	20.871	25.821
44499	13	25.975	2.286	44571	15	7.880	8.257	44643	44	0.040	14.028	44715	40	18.749	19.412	44787	34	22.380	25.180
44500	38	4.434	3.855	44572	15	8.443	8.355	44644	12	0.220	14.890	44716	25	2.258	20.554				
44501	14	7.212	3.576	44573	19	9.030	8.159	44645	15	0.470	14.898	44717	26	4.804	20.624				
44502	33	9.322	3.402	44574	27	10.368	8.314	44646	29	9.292	14.033	44718	35	4.965	20.490				
44503	22	10.324	3.170	44575	15	10.406	8.094	44647	12	12.375	14.440	44719	32	6.872	20.062				
44504	12	11.484	3.052	44576	18	15.900	8.334	44648	18	13.814	14.072	44720	34	11.822	20.078				
44505	31	11.708	3.270	44577	27	17.354	8.587	44649	22	14.658	14.896	44721	17	12.728	20.882				
44506	41	12.298	3.197	44578	25	19.136	8.984	44650	30	18.650	14.804	44722	29	13.846	20.786				
44507	13	12.610	3.588	44579	10	21.670	8.639	44651	33	19.110	14.730	44723	10	16.980	20.968				
44508	11	16.260	3.528	44580	29	23.204	8.132	44652	12	20.118	14.560	44724	22	19.290	20.160				
44509	18	17.092	3.115	44581	12	25.566	8.135	44653	29	21.487	14.902	44725	24	20.104	20.574				
44510	40	20.400	3.040	44582	21	5.545	9.095	44654	15	1.382	15.914	44726	31	22.376	20.032				
44511	35	20.744	3.448	44583	25	10.688	9.504	44655	20	3.894	15.616	44727	18	23.915	20.656				
44512	31	21.082	3.742	44584	25	11.845	9.836	44656	14	6.286	15.282	44728	37	24.506	20.638				
44513	12	22.484	3.781	44585	34	12.025	9.294	44657	19	6.934	15.184	44729	38	25.079	20.876				
44514	25	6.510	4.638	44586	13	12.188	9.955	44658	44	11.480	15.846	44730	18	3.401	21.064				
44515	17	7.591	4.309	44587	14	16.337	9.224	44659	30	17.354	15.434	44731	33	11.938	21.986				
44516	31	8.948	4.114	44588	32	17.154	9.816	44660	33	19.940	15.644	44732	12	12.205	21.664				
44517	31	9.392	4.784	44589	27	19.884	9.361	44661	35	20.234	15.636	44733	20	14.129	21.780				
44518	29	13.114	4.939	44590	31	21.314	9.690	44662	10	20.812	15.189	44734	16	15.117	21.373				
44519	12	19.126	4.682	44591	31	21.714	9.253	44663	42	21.136	15.944	44735	14	15.508	21.634				
44520	22	20.198	4.566	44592	14	23.426	9.698	44664	39	21.412	15.764	44736	18	16.894	21.752				
44521	14	22.023	4.249	44593	18	1.498	10.884	44665	16	24.462	15.202	44737	20	18.045	21.860				
44522	26	3.538	5.882	44594	26	7.316	10.584	44666	42	1.659	16.608	44738	29	24.400	21.612				
44523	29	5.808	5.509	44595	35	7.490	10.727	44667	10	3.979	16.676	44739	40	25.726	21.564				
44524	33	12.059	5.146	44596	21	7.644	10.186	44668	12	5.088	16.150	44740	46	2.558	22.521				
44525	30	13.116	5.780	4															

44811	32	8.024	1.777	44883	12	23.934	8.030	44955	22	13.453	15.822	45027	21	5.770	21.386	45107	40	15.158	1.544
44812	46	9.264	1.766	44884	28	24.135	8.707	44956	19	14.990	15.510	45028	46	7.612	21.756	45108	46	16.885	1.599
44813	45	13.373	1.306	44885	16	6.803	9.358	44957	28	18.790	15.660	45029	11	8.170	21.952	45109	40	19.206	1.396
44814	46	14.455	1.906	44886	12	9.881	9.822	44958	41	21.014	15.742	45030	25	8.233	21.570	45110	24	20.108	1.789
44815	03	23.040	1.846	44887	50	11.627	9.751	44959	36	21.360	15.284	45031	10	10.142	21.580	45111	38	24.368	1.350
44816	14	23.448	1.866	44888	18	12.736	9.676	44960	11	22.234	15.202	45032	16	11.700	21.964	45112	52	1.044	2.036
44817	30	1.095	2.593	44889	38	13.898	9.776	44961	58	24.802	15.460	45033	14	13.994	21.710	45113	15	1.460	2.052
44818	15	3.777	2.116	44890	18	22.477	9.255	44962	29	2.442	16.684	45034	36	14.470	21.543	45114	14	4.954	2.682
44819	27	4.074	2.112	44891	27	25.252	9.140	44963	38	6.846	16.420	45035	23	15.374	21.930	45115	41	6.964	2.582
44820	12	15.380	2.136	44892	19	25.393	9.614	44964	30	7.172	16.562	45036	20	2.280	22.185	45116	24	7.014	2.584
44821	11	0.307	3.668	44893	28	2.593	10.359	44965	15	7.494	16.834	45037	15	3.618	22.626	45117	22	7.064	2.604
44822	10	5.299	3.928	44894	42	5.320	10.150	44966	29	8.446	16.804	45038	13	7.325	22.284	45118	15	9.120	2.285
44823	11	7.828	3.942	44895	14	6.624	10.540	44967	26	9.700	16.144	45039	60	8.700	22.815	45119	12	10.848	2.584
44824	14	9.378	3.030	44896	17	9.710	10.370	44968	12	12.874	16.035	45040	28	12.535	22.770	45120	13	12.316	2.286
44825	25	10.864	3.428	44897	30	12.050	10.245	44969	60	14.070	16.350	45041	13	15.140	22.018	45121	28	13.398	2.936
44826	30	11.229	3.996	44898	14	12.458	10.760	44970	27	20.384	16.744	45042	27	22.650	22.034	45122	20	13.954	2.381
44827	42	22.030	3.800	44899	33	14.001	10.432	44971	14	21.970	16.207	45043	35	1.570	23.444	45123	15	16.826	2.215
44828	18	6.198	4.806	44900	15	18.384	10.339	44972	20	23.080	16.480	45044	45	2.831	23.690	45124	26	19.696	2.444
44829	19	6.662	4.368	44901	25	25.888	10.192	44973	29	23.982	16.310	45045	26	5.690	23.850	45125	17	23.760	2.806
44830	23	7.206	4.052	44902	26	0.735	11.720	44974	43	5.051	17.154	45046	27	11.180	23.240	45126	26	24.164	2.908
44831	11	9.236	4.663	44903	15	2.255	11.198	44975	47	5.798	17.916	45047	36	22.000	23.380	45127	23	24.489	2.423
44832	25	10.084	4.970	44904	17	4.456	11.296	44976	16	9.570	17.490	45048	29	23.629	23.610	45128	15	24.554	2.572
44833	11	11.337	4.406	44905	10	5.610	11.548	44977	12	10.842	17.328	45049	37	24.286	23.499	45129	23	7.020	3.706
44834	14	11.803	4.581	44906	32	8.853	11.650	44978	17	11.860	17.635	45050	26	5.993	24.218	45130	15	8.600	3.705
44835	42	11.890	4.386	44907	22	8.994	11.302	44979	27	15.716	17.620	45051	15	6.996	24.580	45131	12	11.734	3.312
44836	12	13.796	4.456	44908	16	9.060	11.944	44980	17	15.800	17.153	45052	11	7.876	24.612	45132	16	16.874	3.546
44837	25	14.993	4.857	44909	26	9.757	11.064	44981	12	16.102	17.210	45053	26	9.227	24.265	45133	13	17.276	3.406
44838	15	15.330	4.981	44910	31	9.873	11.167	44982	26	16.125	17.304	45054	25	14.146	24.320	45134	12	17.900	3.634
44839	12	16.158	4.660	44911	38	10.920	11.038	44983	29	16.264	17.368	45055	31	14.512	24.462	45135	15	21.763	3.586
44840	10	19.663	4.672	44912	27	11.046	11.422	44984	14	17.334	17.414	45056	26	20.681	24.443	45136	12	22.784	3.658
44841	15	25.173	4.036	44913	28	13.393	11.211	44985	21	2.654	18.691	45057	28	0.556	25.069	45137	13	25.744	3.334
44842	23	0.842	5.267	44914	49	13.663	11.014	44986	18	5.654	18.286	45058	14	6.030	25.004	45138	34	0.068	4.006
44843	10	1.666	5.140	44915	15	14.916	11.328	44987	15	5.850	18.248	45059	12	7.446	25.992	45139	16	3.216	4.194
44844	14	2.492	5.220	44916	44	16.207	11.170	44988	16	7.315	18.663	45060	26	8.473	25.465	45140	12	5.000	4.686
44845	50	2.970	5.464	44917	26	17.835	11.512	44989	26	8.223	18.074	45061	20	9.346	25.378	45141	12	5.921	4.946
44846	14	10.710	5.274	44918	17	18.934	11.756	44990	14	11.050	18.552	45062	14	10.469	25.272	45142	13	5.965	4.672
44847	14	12.081	5.123	44919	18	18.970	11.710	44991	20	11.942	18.220	45063	40	10.478	25.969	45143	14	10.748	4.605
44848	32	13.266	5.345	44920	15	20.303	11.779	44992	17	12.756	18.108	45064	43	10.800	25.540	45144	38	11.276	4.514
44849	13	16.264	5.330	44921	24	23.245	11.988	44993	39	13.160	18.756	45065	37	11.750	25.320	45145	43	14.870	4.394
44850	15	18.117	5.348	44922	11	2.796	12.666	44994	18	14.230	18.131	45066	25	12.125	25.634	45146	37	17.458	4.122
44851	15	23.169	5.432	44923	18	5.680	12.206	44995	12	14.324	18.798	45067	60	12.784	25.580	45147	17	18.350	4.185
44852	34	24.452	5.080	44924	23	10.654	12.548	44996	22	15.134	18.152	45068	53	22.186	25.650	45148	14	1.231	5.624
44853	22	0.222	6.790	44925	36	13.890	12.836	44997	32	16.752	18.764					45149	32	2.508	5.252
44854	31	9.012	6.029	44926	10	18.508	12.310	44998	27	16.800	18.341					45150	13	4.671	5.144
44855	12	10.514	6.335	44927	23	18.678	12.775	44999	19	19.346	18.208					45151	13	5.264	5.402
44856	45	14.220	6.600	44928	26	20.186	12.440	45000	24	23.982	18.139					45152	15	7.143	5.954
44857	18	20.642	6.351	44929	29	23.016	12.260	45001	21	0.466	19.920					45153	14	11.966	5.833
44858	63	20.798	6.638	44930	12	23.684	12.884	45002	16	4.992	19.540					45154	14	12.608	5.408
44859	33	20.988	6.438	44931	16	24.611	12.756	45003	25	7.382	19.926					45155	15	13.663	5.804
44860	40	21.034	6.330	44932	10	9.580	13.960	45004	43	8.074	19.186					45156	14	13.936	5.783
44861	25	23.434	6.785	44933	27	10.440	13.859	45005	37	9.759	19.800					45157	19	18.456	5.700
44862	23	3.103	7.350	44934	36	10.500	13.810	45006	12	12.642	19.688					45158	13	20.600	5.203
44863	14	3.164	7.971	44935	25	12.070	13.740	45007	10	12.943	19.717					45159	16	23.342	5.460
44864	17	6.630	7.284	44936	11	16.850	13.440	45008	25	14.058	19.865					45160	18	1.516	6.972
44865	17	7.528	7.628	44937	10	4.120	14.526	45009	35	15.693	19.217					45161	22	5.926	6.592
44866	96	9.898	7.970	44938	25	5.142	14.688	45010	12	18.680	19.302					45162	37	7.252	6.548
44867	44	14.379	7.993	44939	10	7.726	14.097	45011	30	18.932	19.534					45163	38	7.350	6.014
44868	43	17.125	7.424	44940	29	10.520	14.640	45012	14	2.012	20.520					45164	38	13.786	6.416
44869	20	20.674	7.190	44941	11	11.076	14.519	45013	34	2.602	20.490					45165	13	16.005	6.202
44870	13	24.290	7.442	44942	14	13.542	14.611	45014	37	3.780	20.710					45166	17	16.216	6.236
44871	24	1.096	8.004	44943	25	24.284	14.504	45015	35	5.700	20.359					45167	21	18.005	6.185
44872	21	4.066	8.516	44944	14	14.902	14.496	45016	25	6.550	20.770					45168	42	20.559	6.498
44873	11	4.735	8.018	44945	53	19.220	14.898	45017	25	8.590	20.086					45169	17	23.143	6.791
44874	22	5.478	8.564	44946	11	19.386	14.603	45018	23	14.080	20.390					45170	33	25.460	6.672
44875	26	6.120	8.473	44947	15	20.410	14.565	45019	53	16.888	20.646								

45179	20	14°40'	8°24'	45251	23	15°9'29	16°00'3	45323	13	9°55'8	23°27'5	45380	14	12°8'79	2°20'8	45452	22	16°18'8	8°74'7
45180	15	18°36'6	8°08'0	45252	22	21°09'6	16°7'36	45324	12	15°76'0	23°39'3	45381	18	14°42'2	2°36'4	45453	27	17°15'6	8°21'8
45181	24	20°00'2	8°46'6	45253	24	21°74'0	16°16'6	45325	22	16°41'4	23°75'7	45382*	54	21°62'3	2°52'6	45454	25	24°47'3	8°19'7
45182	14	20°56'2	8°27'6	45254	20	6°10'8	17°46'6	45326	16	18°64'8	23°25'4	45383	15	22°51'6	2°59'4	45455	48	24°48'0	8°04'0
45183	19	20°74'0	8°33'4	45255	22	6°22'6	17°17'4	45327	13	21°72'6	23°29'4	45384*	58	24°64'6	2°05'0	45456	37	24°56'8	8°31'0
45184	34	23°44'4	8°88'6	45256	12	6°55'4	17°68'0	45328	12	23°21'0	23°10'8	45385	18	0°79'2	3°85'0	45457	44	0°10'0	9°45'8
45185	25	23°90'8	8°61'8	45257	24	7°16'6	17°52'8	45329	15	23°72'0	23°26'5	45386	36	2°16'2	3°08'2	45458	45	1°51'0	9°06'7
45186	39	25°74'2	8°64'5	45258	22	14°30'4	17°13'6	45330	31	24°62'4	23°67'2	45387	14	3°75'0	3°48'8	45459	25	6°14'5	9°39'3
45187	18	0°59'4	9°45'6	45259	12	15°77'0	17°06'6	45331*	57	25°20'8	23°62'8	45388	14	4°49'0	3°74'8	45460*	52	11°27'0	9°98'7
45188	22	3°36'8	9°30'4	45260	16	17°37'3	17°51'6	45332	20	9°17'4	24°76'0	45389	40	5°54'3	3°93'0	45461	19	11°47'3	9°61'8
45189	16	3°51'6	9°77'4	45261	34	18°40'4	17°59'8	45333	12	16°08'5	24°62'6	45390	11	6°42'1	3°39'5	45462	12	16°52'7	9°46'4
45190	24	4°15'9	9°21'4	45262*	44	24°27'5	17°60'4	45334*	44	16°11'9	24°07'6	45391*	55	11°78'4	3°90'9	45463	25	20°56'5	9°03'0
45191	15	12°78'3	9°22'6	45263	20	2°22'6	18°11'6	45335	24	16°93'6	24°70'8	45392	30	19°47'2	3°30'4	45464	46	20°85'6	9°56'2
45192	22	21°06'5	9°53'1	45264	26	13°68'2	18°22'8	45336	21	20°16'6	24°54'4	45393	17	20°05'0	3°45'0	45465	35	21°57'0	9°38'5
45193	39	22°02'8	9°26'1	45265	11	14°07'1	18°26'6	45337*	37	23°19'4	24°17'8	45394	14	22°29'2	3°98'8	45466	10	0°91'5	10°56'9
45194	21	4°01'6	10°34'6	45266	23	15°47'2	18°14'6	45338	40	24°26'2	24°47'1	45395*	80	25°37'2	3°35'1	45467	12	1°89'0	10°97'2
45195	13	5°97'8	10°75'4	45267	23	18°07'2	18°17'4	45339	62	25°53'2	24°01'4	45396	12	9°29'6	4°59'8	45468*	53	3°36'6	10°89'5
45196*	77	6°76'5	10°52'6	45268	15	18°39'4	18°52'8	45340	46	0°53'2	25°85'6	45397	14	9°29'7	4°75'6	45469	14	5°36'0	10°21'0
45197	20	7°32'6	10°03'3	45269	12	19°26'6	18°44'3	45341	20	10°97'2	25°86'2	45398	11	9°54'0	4°83'5	45470	12	7°94'4	10°36'2
45198*	48	8°72'6	10°59'8	45270	23	20°61'7	18°56'0	45342	80	15°71'7	25°83'6	45399	25	10°27'4	4°73'0	45471	18	8°36'4	10°07'3
45199	13	16°33'2	10°40'6	45271	18	22°13'7	18°08'4	45343	24	22°51'2	25°04'6	45400	10	11°11'9	4°84'6	45472	25	13°34'0	10°80'6
45200	12	17°59'5	10°94'3	45272	18	24°40'7	18°05'0	45401	14	13°51'0	4°34'7	45401	14	13°51'0	4°34'7	45473	14	13°75'8	10°28'5
45201	34	21°81'2	10°79'5	45273	17	25°36'1	18°13'3	45402	14	16°44'4	4°13'4	45402	22	17°66'0	4°34'0	45474	26	20°86'4	10°39'5
45202	21	23°40'0	10°86'2	45274*	43	25°40'0	18°68'6	45403	22	17°66'0	4°34'0	45403	22	17°66'0	4°34'0	45475*	55	23°96'0	10°94'3
45203	12	23°80'0	10°79'8	45275	17	8°48'5	19°35'6	45404	50	19°19'0	4°52'8	45404	50	19°19'0	4°52'8	45476	27	24°86'5	10°61'0
45204*	41	25°22'0	10°73'4	45276	11	8°90'6	19°59'8	45405	40	19°77'5	4°71'6	45405	40	19°77'5	4°71'6	45477	31	1°49'0	11°04'1
45205	18	9°06'5	11°22'0	45277	24	9°18'2	19°93'7	45406	48	21°37'0	4°99'4	45406	48	21°37'0	4°99'4	45478	18	3°68'0	11°90'6
45206	12	9°29'4	11°07'4	45278	37	9°80'0	19°95'5	45407	21	22°24'4	4°28'6	45407	21	22°24'4	4°28'6	45479	17	5°84'5	11°26'6
45207	16	11°30'0	11°79'5	45279	12	10°47'6	19°92'7	45408	39	23°52'0	4°85'8	45408	39	23°52'0	4°85'8	45480	16	11°21'8	11°28'0
45208*	46	14°04'7	11°48'5	45280	17	13°21'9	19°05'5	45409	20	1°37'0	5°64'2	45409	20	1°37'0	5°64'2	45481	12	11°59'2	11°40'2
45209	22	14°57'6	11°67'6	45281	31	13°73'4	19°09'0	45410	51	5°51'1	5°73'5	45410	51	5°51'1	5°73'5	45482	11	17°68'0	11°64'3
45210	15	15°36'4	11°08'2	45282	14	14°24'2	19°93'6	45411	16	5°97'0	5°36'5	45411	16	5°97'0	5°36'5	45483	24	1°53'5	12°59'2
45211	15	21°50'6	11°18'3	45283	15	16°06'3	19°24'6	45412	11	8°28'0	5°02'7	45412	11	8°28'0	5°02'7	45484	26	2°75'9	12°08'4
45212	23	24°65'6	11°18'3	45284	12	20°22'4	19°80'6	45413	24	8°74'9	5°77'3	45413	24	8°74'9	5°77'3	45485	40	8°69'5	12°35'8
45213	28	1°17'4	12°45'2	45285	12	20°60'8	19°28'8	45414	10	9°13'7	5°93'0	45414	10	9°13'7	5°93'0	45486	38	11°63'9	12°98'6
45214	19	1°40'2	12°17'6	45286	13	20°75'0	19°17'4	45415	14	11°46'0	5°00'9	45415	14	11°46'0	5°00'9	45487	12	12°26'6	12°93'6
45215	16	2°77'6	12°25'5	45287	34	25°80'8	19°95'2	45416	20	12°69'6	5°96'5	45416	20	12°69'6	5°96'5	45488	13	15°41'0	12°81'2
45216	18	11°97'4	12°72'0	45288	30	25°85'4	19°94'1	45417	10	17°68'0	5°65'8	45417	10	17°68'0	5°65'8	45489	21	15°62'0	12°80'4
45217	19	12°87'5	12°82'0	45289	16	1°40'6	20°10'3	45418	45	17°77'8	5°04'6	45418	45	17°77'8	5°04'6	45490	15	15°63'6	12°79'0
45218	36	13°90'6	12°72'1	45290	28	2°12'6	20°59'7	45419	30	19°42'2	5°83'2	45419	30	19°42'2	5°83'2	45491	19	17°29'6	12°63'8
45219	15	17°04'8	12°04'5	45291	20	3°57'6	20°45'6	45420	12	20°24'8	5°97'9	45420	12	20°24'8	5°97'9	45492	11	21°44'0	12°78'8
45220	22	23°42'4	12°12'1	45292*	52	9°67'0	20°39'2	45421	24	21°12'0	5°28'7	45421	24	21°12'0	5°28'7	45493	19	21°95'0	12°93'1
45221	14	1°85'2	13°06'6	45293	15	12°78'0	20°88'4	45422	22	25°53'9	5°82'2	45422	22	25°53'9	5°82'2	45494	25	2°12'4	13°20'9
45222	23	5°77'2	13°62'2	45294	15	13°53'2	20°96'6	45423	12	0°57'4	6°75'6	45423	12	0°57'4	6°75'6	45495	13	2°43'0	13°78'0
45223	13	10°60'9	13°13'0	45295	13	15°32'0	20°70'4	45424	15	1°18'6	6°97'6	45424	15	1°18'6	6°97'6	45496	11	5°14'7	13°95'4
45224	24	13°40'0	13°53'8	45296	20	16°00'5	20°33'4	45425	40	3°50'0	6°83'0	45425	40	3°50'0	6°83'0	45497	12	5°64'4	13°09'6
45225	16	21°25'8	13°07'0	45297	16	17°44'2	20°08'5	45426	18	13°58'6	6°19'2	45426	18	13°58'6	6°19'2	45498	11	7°24'2	13°02'2
45226	21	24°00'6	13°03'5	45298	19	19°92'4	20°33'1	45427	49	21°28'6	6°45'5	45427	49	21°28'6	6°45'5	45499	11	8°00'2	13°62'4
45227	12	24°30'5	13°01'0	45299	18	19°93'4	20°31'6	45428	33	25°45'3	6°09'8	45428	33	25°45'3	6°09'8	45500	20	8°52'0	13°09'6
45228	23	5°81'6	14°33'4	45300	22	21°45'5	20°72'4	45429	24	6°64'5	7°95'0	45429	24	6°64'5	7°95'0	45501	15	10°82'2	13°54'6
45229	52	12°39'6	14°44'9	45301	12	9°15'7	21°14'7	45430	33	10°83'6	7°40'8	45430	33	10°83'6	7°40'8	45502	13	11°43'4	13°50'5
45230	13	19°89'2	14°32'6	45302	19	9°72'0	21°87'4	45431	12	11°54'0	7°49'7	45431	12	11°54'0	7°49'7	45503	10	12°92'0	13°87'9
45231	38	20°63'5	14°15'0	45303	19	12°39'4	21°17'0	45432	28	13°93'8	7°59'5	45432	28	13°93'8	7°59'5	45504	14	16°52'0	13°25'6
45232	15	21°10'1	14°54'8	45304	18	15°91'8	21°84'0	45433	12	14°65'0	7°89'7	45433	12	14°65'0	7°89'7	45505	13	16°93'0	13°88'0
45233*	48	23°32'4	14°06'6	45305	33	16°98'5	21°62'4	45434	11	13°18'0	1°34'8	45434	11	13°18'0	1°34'8	45506	10	17°22'8	13°19'6
45234	14	24°10'8	14°32'0	45306*	41	17°88'0	21°10'6	45435	20	14°06'8	1°81'8	45435	20	14°06'8	1°81'8	45507*	70	17°48'1	13°08'6
45235	20	25°37'0	14°32'6	45307	20	24°36'8	21°63'2	45436	11	15°47'2	1°25'0	45436	11	15°47'2	1°25'0	45508	43	18°20'0	13°59'5
45236	17	25°66'9	14°79'2	45308	24	25°53'2	21°72'4	45437	47	16°11'5	1°35'2	45437	47	16°11'5	1°35'2	45509	12	19°98'8	13°22'5
45237*	54	3°00'4	15°62'0	45309	19	0°95'0	22°23'4	45438	10	23°37'8	1°32'4	45438	10	23°37'8	1°32'4	45510	20	20°56'4	13°86'2

45900	39	9.464	17.616	45972	46	7.626	23.400	46069	17	7.960	2.036	46141	13	4.344	10.972	46213	24	11.846	18.292
45901	10	10.590	17.979	45973	38	8.663	23.872	46070	26	13.885	2.606	46142	12	6.000	10.074	46214	18	15.485	18.796
45902	10	14.451	17.330	45974	37	9.575	23.638	46071	40	18.500	2.290	46143	33	8.540	10.487	46215	10	16.690	18.816
45903	10	16.210	17.081	45975	39	10.427	23.145	46072	21	18.982	2.488	46144	29	22.116	10.487	46216	14	18.284	18.294
45904	11	17.908	17.242	45976	14	12.336	23.690	46073	25	20.310	2.460	46145	19	1.504	11.938	46217	18	24.830	18.612
45905	19	21.096	17.317	45977	27	15.152	23.607	46074	12	24.119	2.600	46146	27	4.580	11.865	46218	14	25.274	18.280
45906	11	21.490	17.498	45978	15	15.630	23.080	46075	45	25.546	2.580	46147	20	8.700	11.180	46219	94	25.810	18.626
45907	31	22.006	17.522	45979	19	25.392	23.326	46076	21	0.850	3.364	46148	25	17.624	11.672	46220	14	3.061	19.580
45908	33	22.458	17.771	45980	53	2.222	24.083	46077	49	1.482	3.842	46149	29	19.472	11.294	46221	13	6.770	19.532
45909	10	25.094	17.861	45981	21	8.118	24.899	46078	12	4.668	3.498	46150	13	21.640	11.330	46222	33	9.700	19.953
45910	17	1.408	18.507	45982	44	8.446	24.984	46079	12	11.880	3.430	46151	19	23.146	11.167	46223	69	10.600	19.605
45911	13	6.354	18.438	45983	13	10.182	24.638	46080	29	14.564	3.832	46152	12	6.173	12.244	46224	37	10.960	19.841
45912	10	6.881	18.402	45984	10	10.240	24.526	46081	13	15.798	3.776	46153	25	9.719	12.673	46225	46	12.066	19.946
45913	11	7.186	18.640	45985	37	10.595	24.662	46082	55	18.280	3.219	46154	22	13.188	12.850	46226	22	13.394	19.370
45914	50	9.304	18.660	45986	11	14.876	24.102	46083	18	18.920	3.359	46155	18	14.624	12.199	46227	65	13.684	19.270
45915	12	14.700	18.308	45987	24	16.367	24.953	46084	16	21.058	3.548	46156	11	16.124	12.780	46228	11	17.382	19.722
45916	30	15.055	18.442	45988	11	18.765	24.248	46085	15	22.201	3.625	46157	37	16.916	12.666	46229	20	17.382	19.810
45917	15	21.928	18.840	45989	47	21.868	24.353	46086	15	0.942	4.854	46158	17	18.690	12.322	46230	13	17.682	19.787
45918	10	22.310	18.814	45990	42	22.936	24.716	46087	25	5.325	4.279	46159	24	21.026	12.644	46231	11	19.076	19.940
45919	21	23.650	18.549	45991	12	3.352	25.156	46088	30	8.388	4.114	46160	29	21.141	12.655	46232	23	19.623	19.950
45920	10	0.668	19.198	45992	42	8.337	25.600	46089	26	14.036	4.352	46161	26	22.924	12.036	46233	51	1.025	20.900
45921	30	5.570	19.706	45993	39	8.604	25.660	46090	25	14.696	4.372	46162	16	23.980	12.113	46234	11	3.237	20.676
45922	26	9.148	19.066	45994	12	9.414	25.614	46091	14	14.890	4.874	46163	16	24.510	12.102	46235	17	4.060	20.395
45923	13	12.407	19.034	45995	38	10.767	25.948	46092	19	18.126	4.590	46164	24	25.120	12.484	46236	25	11.140	20.388
45924	19	13.665	19.390	45996	10	11.728	25.916	46093	17	24.683	4.086	46165	17	25.124	12.495	46237	14	14.600	20.362
45925	22	14.383	19.818	45997	10	13.142	25.680	46094	12	24.746	4.034	46166	13	2.764	13.344	46238	30	10.966	20.816
45926	22	14.908	19.398	45998	10	16.800	25.670	46095	14	1.058	5.916	46167	17	4.565	13.920	46239	13	17.242	20.598
45927	21	21.516	19.616	45999	18	18.338	25.892	46096	45	3.020	5.621	46168	13	6.408	13.007	46240	14	19.652	20.312
45928	10	21.550	19.530	46000	19	19.320	25.082	46097	18	13.673	5.726	46169	12	15.136	13.278	46241	14	22.955	20.140
45929	15	25.012	19.271	46001	17	24.302	25.358	46098	11	15.286	5.798	46170	20	23.382	13.160	46242	13	23.216	20.889
45930	29	4.753	20.728					46099	13	18.950	5.388	46171	27	0.115	14.100	46243	22	23.446	20.348
45931	38	9.980	20.620					46100	21	22.970	5.039	46172	29	2.698	14.246	46244	13	1.802	21.179
45932	10	10.590	20.704					46101	38	0.595	6.795	46173	13	3.080	14.610	46245	14	2.690	21.136
45933	49	11.110	20.810					46102	25	0.807	6.016	46174	10	4.620	14.058	46246	12	2.928	21.740
45934	18	11.573	20.147					46103	20	2.212	6.461	46175	12	10.657	14.509	46247	18	4.626	21.516
45935	11	11.600	20.272					46104	18	3.370	6.980	46176	27	11.864	14.150	46248	27	8.936	21.842
45936	13	14.066	20.042					46105	18	3.913	6.759	46177	43	18.315	14.602	46249	27	15.286	21.926
45937	23	15.055	20.912					46106	24	4.940	6.309	46178	41	21.932	14.990	46250	22	17.800	21.550
45938	21	15.852	20.846					46107	21	13.822	6.285	46179	40	22.767	14.330	46251	26	20.752	21.778
45939	12	16.099	20.969					46108	23	17.418	6.446	46180	25	8.955	15.579	46252	14	2.314	22.342
45940	16	18.986	20.236					46109	14	18.707	6.707	46181	90	24.144	15.066	46253	18	5.177	22.134
45941	53	22.972	20.574					46110	28	3.318	7.700	46182	14	1.914	16.835	46254	15	6.438	22.300
45942	13	23.738	20.858					46111	15	4.040	7.526	46183	12	2.426	16.434	46255	14	8.907	22.066
45943	10	24.626	20.822					46112	15	5.208	7.860	46184	10	2.670	16.973	46256	14	10.856	22.226
45944	25	1.626	21.215					46113	35	8.713	7.900	46185	20	3.733	16.030	46257	14	13.122	22.516
45945	32	1.780	21.530					46114	12	10.190	7.472	46186	13	5.699	16.555	46258	29	22.918	22.293
45946	10	3.128	21.570					46115	29	21.487	7.820	46187	22	8.330	16.400	46259	27	24.051	22.900
45947	41	4.858	21.428					46116	13	24.396	7.624	46188	26	8.595	16.750	46260	19	3.477	23.634
45948	29	7.243	21.741					46117	21	4.560	8.162	46189	24	9.556	16.320	46261	15	5.357	23.790
45949	19	10.370	21.660					46118	10	5.636	8.889	46190	41	13.256	16.480	46262	12	5.364	23.834
45950	16	10.498	21.446					46119	12	6.394	8.036	46191	30	13.767	16.530	46263	11	6.097	23.582
45951	34	11.414	21.148					46120	33	7.050	8.788	46192	11	15.162	16.170	46264	29	7.912	23.374
45952	33	11.644	21.500					46121	14	8.259	8.050	46193	18	22.316	16.553	46265	27	8.561	23.752
45953	22	16.021	21.852					46122	15	9.356	8.497	46194	19	22.350	16.852	46266	12	10.413	23.394
45954	21	19.506	21.644					46123	18	11.063	8.890	46195	35	22.407	16.172	46267	19	18.990	23.617
45955	30	20.320	21.642					46124	18	15.576	8.704	46196	17	23.582	16.060	46268	16	4.014	24.430
45956	27	21.284	21.885					46125	13	16.210	8.338	46197	14	24.821	16.610	46269	12	5.910	24.522
45957	29	0.008	22.431					46126	18	17.922	8.714	46198	13	25.600	16.320	46270	14	6.042	24.166
45958	19	8.032	22.328					46127	40	17.950	8.166	46199	14	25.704	16.110	46271	13	8.430	24.116
45959	11	9.704	22.728					46128	93	23.125	8.198	46200	26	0.038	17.858	46272	14	1.610	24.490
45960	20	12.463	22.844					46129	15	0.342	9.494	46201	37	9.854	17.916	46273	13	15.597	24.830
45961	12	14.262	22.618					46130	31	2.325	9.050	46202	38	12.598	17.348	46274	11	17.786	24.790
45962	18	15.984	22.682					46131	29	12.380	9.646	46203	18	16.440	17.644	46275	12	17.868	24.344
45963	12	18.924	22.204					46132	28	16.472	9.216	46204	40	18.780	17.320	46276	45	1.026	25.042
45964	16	22.850	22.210					46133	24	16.600	9.812	46205	43	19.582	17.425	46277	19	2.403	25.675
45965	32	0.633	23.095					46134	17	19.238	9.651	46206	36	19.680	17.796	46278	14		



45900	39	9°46'	17°16'	45972*	46	7°62'	23°400	46069	17	7°960	2°036	46141	13	4°344	10°972	46213	24	11°846	18°292
45901	10	10°590	17°979	45973	38	8°663	23°872	46070	26	13°885	2°606	46142	12	6°000	10°074	46214	18	15°485	18°796
45902	10	14°451	17°330	45974	37	9°575	23°638	46071	40	18°500	2°290	46143	33	8°540	10°487	46215	10	16°690	18°816
45903	10	16°210	17°081	45975	39	10°427	23°145	46072	21	18°982	2°488	46144	29	22°116	10°590	46216	14	18°284	18°294
45904	11	17°908	17°242	45976	14	12°336	23°690	46073	25	20°310	2°460	46145	19	1°504	11°938	46217	18	24°830	18°612
45905	19	21°096	17°317	45977	27	15°152	23°607	46074	12	24°119	2°600	46146	27	4°580	11°865	46218	14	25°274	18°280
45906	11	21°490	17°498	45978	15	15°630	23°080	46075	45	25°546	2°580	46147	20	8°700	11°180	46219	94	25°810	18°626
45907	31	22°006	17°522	45979	19	25°392	23°326	46076	21	0°850	3°364	46148	25	17°624	11°672	46220	14	3°061	19°580
45908	33	22°458	17°771	45980*	53	2°222	24°083	46077*	49	1°482	3°842	46149	29	19°472	11°294	46221	13	6°770	19°532
45909	10	25°094	17°861	45981	21	8°118	24°899	46078	12	4°668	3°498	46150	13	21°640	11°330	46222	33	9°700	19°953
45910	17	1°408	18°507	45982*	44	8°446	24°984	46079	12	11°880	3°430	46151	19	23°146	11°167	46223*	69	10°600	19°605
45911	13	6°354	18°438	45983	13	10°182	24°638	46080	29	14°564	3°832	46152	12	6°173	12°244	46224	37	10°960	19°841
45912	10	6°881	18°402	45984	10	10°240	24°526	46081	13	15°798	3°776	46153	25	9°719	12°673	46225	46	12°066	19°946
45913	11	7°186	18°640	45985	37	10°595	24°662	46082*	55	18°280	3°219	46154	22	13°188	12°850	46226	22	13°394	19°370
45914*	50	9°364	18°660	45986	11	14°876	24°102	46083	18	18°920	3°359	46155	18	14°624	12°199	46227*	65	13°684	19°270
45915	12	14°700	18°308	45987	24	16°367	24°953	46084	16	21°658	3°548	46156	11	16°124	12°780	46228	11	17°282	19°722
45916	30	15°055	18°442	45988	11	18°765	24°248	46085	15	22°201	3°625	46157	37	16°916	12°666	46229	20	17°382	19°810
45917	15	21°928	18°840	45989*	47	21°868	24°353	46086	15	0°942	4°854	46158	17	18°690	12°326	46230	13	17°682	19°787
45918	10	22°310	18°814	45990	42	22°936	24°716	46087	25	5°325	4°279	46159	24	21°026	12°644	46231	11	19°076	19°940
45919	21	23°650	18°549	45991	12	3°352	25°156	46088	30	8°388	4°114	46160	29	21°141	12°305	46232	23	19°623	19°050
45920	10	0°668	19°198	45992	42	8°337	25°690	46089	26	14°036	4°352	46161	26	22°924	12°036	46233*	51	1°025	20°900
45921	30	5°570	19°766	45993	39	8°604	25°660	46090	25	14°666	4°372	46162	16	23°980	12°113	46234	11	3°237	20°676
45922	26	9°148	19°066	45994	12	9°414	25°614	46091	14	14°890	4°874	46163	16	24°510	12°102	46235	17	4°060	20°395
45923	13	12°407	19°034	45995	38	10°767	25°946	46092	19	18°126	4°590	46164	24	25°120	12°484	46236	25	11°140	20°388
45924	19	13°665	19°390	45996	10	11°728	25°918	46093	17	24°683	4°086	46165	17	25°124	12°495	46237	14	14°600	20°362
45925	22	14°383	19°818	45997	10	13°142	25°680	46094	12	24°746	4°034	46166	13	2°764	13°344	46238	30	16°966	20°816
45926	22	14°908	19°938	45998	10	16°800	25°670	46095	14	1°058	5°916	46167	17	4°565	13°920	46239	13	17°242	20°598
45927	21	21°516	19°616	45999	18	18°338	25°892	46096*	45	3°020	5°621	46168	13	6°408	13°007	46240	14	19°652	20°312
45928	10	21°550	19°530	46000	19	19°320	25°082	46097	18	13°673	5°726	46169	12	15°136	13°278	46241	14	22°955	20°434
45929	15	25°012	19°271	46001	17	24°302	25°358	46098	11	15°286	5°798	46170	20	23°382	13°160	46242	13	23°216	20°889
45930	29	4°753	20°728					46099	13	18°950	5°388	46171	27	0°115	14°100	46243	22	23°446	20°348
45931	38	9°980	20°620					46100	21	22°970	5°039	46172	29	2°698	14°246	46244	13	1°802	21°179
45932	10	10°590	20°704					46101*	38	0°505	6°795	46173	13	3°080	14°610	46245	14	2°600	21°136
45933*	49	11°110	20°810					46102	25	0°807	6°016	46174	10	4°620	14°058	46246	12	2°928	21°740
45934	18	11°573	20°147					46103	20	2°212	6°461	46175	12	10°657	14°509	46247	18	4°626	21°516
45935	13	11°600	20°272					46104	18	3°370	6°980	46176	27	11°864	14°150	46248	27	8°936	21°842
45936	13	14°066	20°042					46105	18	3°913	6°759	46177*	43	18°315	14°602	46249	27	15°286	21°926
45937	23	15°055	20°912					46106	24	4°940	6°309	46178	41	21°032	14°990	46250	22	17°800	21°150
45938	21	15°852	20°846					46107	21	13°822	6°285	46179	40	22°767	14°330	46251	26	20°752	21°778
45939	12	16°099	20°969					46108	23	17°418	6°446	46180	25	8°955	15°579	46252	14	2°314	22°342
45940	16	18°986	20°236					46109	14	18°707	6°707	46181*	90	24°144	15°060	46253	18	5°177	22°134
45941*	53	22°972	20°574					46110	28	3°118	7°700	46182	14	1°914	16°835	46254	15	6°438	22°300
45942	13	23°738	20°858					46111	15	4°040	7°526	46183	12	2°426	16°434	46255	14	8°907	22°060
45943	10	24°626	20°822					46112	15	5°208	7°860	46184	10	2°070	16°973	46256	14	10°856	22°226
45944	25	1°626	21°215					46113	35	8°548	7°900	46185	20	3°733	16°030	46257	14	13°122	22°516
45945	32	1°780	21°530					46114	12	10°190	7°472	46186	13	5°699	16°555	46258	29	22°918	22°293
45946	10	3°128	21°520					46115	29	21°487	7°820	46187	22	8°330	16°400	46259	27	24°051	22°900
45947	41	4°858	21°428					46116	13	24°396	7°624	46188	26	8°595	16°750	46260	19	3°477	23°634
45948	29	7°243	21°741					46117	21	4°560	8°162	46189	24	9°556	16°320	46261	15	5°357	23°790
45949	19	10°370	21°660					46118	10	5°636	8°889	46190*	41	13°256	16°480	46262	12	5°364	23°834
45950	16	10°498	21°446					46119	12	6°394	8°036	46191	30	13°767	16°530	46263	11	6°097	23°582
45951	34	11°414	21°148					46120	33	7°050	8°788	46192	11	15°162	16°170	46264	29	7°912	23°374
45952	35	11°644	21°500					46121	14	8°259	8°050	46193	18	22°316	16°553	46265	27	8°561	23°752
45953	22	16°021	21°852					46122	15	9°356	8°497	46194	19	22°350	16°852	46266	12	10°413	23°394
45954	21	19°506	21°644					46123	13	11°063	8°890	46195	35	22°407	16°172	46267	19	18°990	23°617
45955	30	20°320	21°642					46124	18	15°576	8°704	46196	17	23°582	16°060	46268	16	4°014	24°430
45956	27	21°284	21°885					46125	13	16°210	8°338	46197	14	24°821	16°610	46269	12	5°910	24°522
45957	29	0°008	22°431					46126	18	17°922	8°714	46198	13	25°000	16°320	46270	14	6°042	24°166
45958	19	8°032	22°328					46127	40	17°950	8°166	46199	14	25°704	16°110	46271	13	8°430	24°196
45959	11	9°704	22°728					46128*	93	23°120	8°198	46200	26	0°038	17°858	46272	24	14°610	24°490
45960	20	12°403	22°844					46129	15	0°342	9°494	46201	37	9°854	17°916	46273	13	15°597	24°830
45961	12	14°262	22°618					46130	31	2°325	9°056	46202	38	12°598	17°348	46274	11	17°786	24°797
45962	18	15°984	22°682					46131	29	12°380	9°646	46203	18	16°440	17°644	46275	12	17°868	24°340
45963	12	18°924	22°204					46132	28	16°472	9°216	46204	40	18°780	17°320	46276	45	1°026	25°042
45964	16	22°850	22°210					46133	24	16°600	9°812	46205	43	19°582	17°425	46277	19	24°023	25°675
45965	32	0°633	23°095					46134	17	19°238	9°651	46206	36	19°680	17°796	46278	14</		



46606	37	16-449	6-019	46678	16	19-000	12-307	46750	40	4-715	18-621	46822	44	3-894	25-860	46888	34	0-063	5-152
46607	29	17-714	6-881	46679	23	20-026	12-259	46751	34	6-224	18-426	46823	18	3-947	25-474	46889	15	4-032	5-414
46608	12	25-771	6-309	46680	43	24-861	12-651	46752	18	7-785	18-884	46824	37	10-140	25-356	46890	22	4-477	5-794
46609	24	2-208	7-103	46681	43	0-500	13-074	46753	13	7-970	18-330	46825	63	10-491	25-996	46891	17	5-636	5-618
46610	82	2-266	7-124	46682	27	5-184	13-234	46754	33	12-120	18-972	46826	17	12-366	25-200	46892	33	8-232	5-996
46611	31	4-588	7-706	46683	26	5-870	13-474	46755	24	12-030	18-348	46827	34	14-095	25-843	46893	19	8-682	5-266
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47350	23	0 432	19 248					47502*	44	23 354	5 604	47574	11	24 142	14 086	47646	20	19 228	21 750
47351	12	4 508	19 068					47503	20	2 066	6 926	47575	12	25 842	14 680	47647	18	20 715	21 990
47352	13	8 900	19 357					47504*	80	18 382	6 800	47576	11	4 812	15 572	47648	37	23 148	21 239
47353	14	13 298	19 287					47505	15	20 610	6 532	47577	12	6 519	15 049	47649	29	0 222	22 255
47354*	35	14 754	19 271					47506	13	22 370	6 265	47578	13	16 330	15 285	47650	19	4 628	22 175
47355	10	18 776	19 430					47507	12	25 875	6 375	47579	11	17 580	15 446	47651	29	11 638	22 570
47356	16	19 850	19 576					47508	14	5 075	7 268	47580	15	23 166	15 288	47652	11	12 164	22 204
47357	12	21 220	19 280					47509	22	5 375	7 118	47581*	54	24 476	15 532	47653	16	12 471	22 830
47358	18	1 810	20 544					47510	19	7 670	7 345	47582	14	25 655	15 444	47654	24	17 362	22 935
47359	16	2 344	20 577					47511	19	9 268	7 148	47583	43	25 855	15 680	47655	11	23 490	22 377
47360	13	2 764	20 560					47512	19	12 050	7 300	47584	23	25 906	15 730	47656	12	5 250	23 736
47361	12	5 354	20 362					47513	18	16 460	7 849	47585	20	0 955	16 732	47657	35	5 296	23 740
47362	11	6 952	20 650					47514	12	17 526	7 049	47586	35	6 240	16 291	47658	21	5 054	23 934
47363	15	9 461	20 907					47515	35	0 510	8 402	47587	35	6 931	16 198	47659	28	7 822	23 086
47364	16	13 912	20 122					47516	11	1 356	8 528	47588	17	9 220	16 695	47660	15	9 730	23 765
47365	12	14 363	20 130					47517	13	5 148	8 770	47589	10	11 335	16 378	47661	12	10 680	23 302
47366*	33	16 017	20 910					47518	12	5 660	8 327	47590	15	13 184	16 419	47662	15	11 223	23 896
47367	10	19 522	20 508					47519	29	5 944	8 876	47591	40	15 550	16 148	47663	16	14 078	23 535
47368	19	23 141	20 535					47520	16	6 386	8 878	47592	18	19 925	16 355	47664	15	17 474	23 880
47369*	40	23 200	20 150					47521	14	7 530	8 880	47593*	36	21 226	16 938	47665	12	17 690	23 551
47370	5	0 864	21 810					47522*	40	10 895	8 672	47594	20	23 867	16 960	47666	17	18 100	23 020
47371	25	3 396	21 431	47451	12	0 100	0 214	47523	13	12 862	8 390	47595	20	0 101	17 630	47667	16	20 942	23 955
47372	15	9 755	21 953	47452	11	3 670	0 734	47524	12	14 749	8 082	47596	12	0 820	17 556	47668	13	21 948	23 582
47373	12	16 608	21 648	47453*	43	9 775	0 030	47525	20	15 548	8 658	47597	22	2 835	17 410	47669	13	23 969	23 526
47374	11	12 274	21 900	47454	19	13 255	0 079	47526	14	19 700	8 138	47598	26	6 176	17 270	47670	33	0 356	24 367
47375*	51	15 115	21 034	47455	13	14 477	0 618	47527	15	22 434	8 844	47599	20	8 285	17 471	47671	22	1 055	24 176
47376	10	17 808	21 829	47456	13	17 525	0 905	47528	19	25 299	8 400	47600	15	8 370	17 443	47672	14	4 443	24 103
47377	12	21 332	21 980	47457	36	17 525	0 681	47529	20	5 834	9 064	47601*	49	8 923	17 090	47673*	40	4 590	24 217
47378	16	21 710	21 012	47458	12	23 637	0 185	47530	20	7 954	9 992	47602*	43	9 052	17 980	47674	13	5 949	24 725
47379	12	21 812	21 512	47459	10	23 861	0 376	47531	17	9 592	9 018	47603	42	9 140	17 882	47675	23	15 666	24 445
47380	27	22 400	21 960	47460	10	24 642	0 506	47532	12	10 645	9 430	47604	15	11 878	17 138	47676	25	18 150	24 852
47381*	24	24 460	21 458	47461	12	25 065	0 868	47533	13	11 382	9 190	47605	24	13 443	17 508	47677	13	19 838	24 065
47382	21	25 854	21 694	47462	13	1 246	1 796	47534	18	11 510	9 577	47606	12	14 670	17 880	47678	13	25 820	24 050
47383	10	0 770	22 284	47463	15	4 977	1 106	47535	15	15 300	9 374	47607	13	15 953	17 847	47679	13	2 152	25 722
47384	11	1 620	22 450	47464	16	6 975	1 390	47536	13	17 426	9 982	47608	17	18 564	17 028	47680	14	2 164	25 407
47385	12	1 668	22 674	47465	10	8 202	1 516	47537*	40	24 090	9 135	47609	12	22 402	17 615	47681	21	8 608	25 350
47386	17	4 588	22 186	47466	14	9 498	1 264	47538	20	25 715	9 419	47610	20	1 928	18 666	47682	11	17 504	25 779
47387	12	4 919	22 808	47467	12	14 140	1 438	47539	15	1 184	10 116	47611	29	6 787	18 650	47683	40	20 186	25 986
47388	11	7 966	22 850	47468	15	14 981	1 724	47540*	56	2 434	10 954	47612	16	9 688	18 310	47684	80	22 835	25 564
47389	11	8 664	22 477	47469	11	22 500	1 977	47541	30	2 950	10 882	47613	10	12 234	18 729	47685	37	24 314	25 490
47390*	34	11 428	22 340	47470*	38	23 188	1 805	47542	10	4 401	10 873	47614	13	17 312	18 654	47686	20	24 400	25 230
47391	15	12 630	22 426	47471	35	24 104	1 490	47543	13	6 830	10 586	47615	19	19 184	18 325				
47392	11	12 052	22 114	47472	22	1 832	2 064	47544	12	8 883	10 386	47616	20	20 766	18 321				
47393	15	15 230	22 380	47473	12	2 747	2 265	47545	27	10 162	10 585	47617	43	25 034	18 765				
47394	10	18 220	22 863	47474	16	5 614	2 805	47546	14	11 015	10 072	47618	13	2 065	19 225				
47395	5	5 690	23 700	47475	33	6 800	2 735	47547	24	13 120	10 052	47619	22	12 754	19 733				
47396	12	10 436	23 405	47476	17	8 435	2 350	47548	22	14 820	10 727	47620	25	18 702	19 268				
47397	14	14 965	23 126	47477	22	12 955	2 511	47549	20	15 958	10 728	47621	12	24 545	19 870				
47398	13	16 638	23 216	47478	11	18 060	2 975	47550	12	17 048	10 135	47622	25	25 019	19 090				
47399	23	22 858	23 890	47479	23	3 006	3 475	47551	23	19 974	10 988	47623	20	1 308	20 820				
47400	32	2 834	24 112	47480	18	5 970	3 928	47552	20	22 741	10 586	47624*	40	1 362	20 434				
47401	13	15 970	24 308	47481	11	10 630	3 870	47553*	48	19 140	11 038	47625	12	4 166	2				

R.A. 13<sup>h</sup> 36<sup>m</sup>

Plate 1627; 1920 Mar. 18.

## Provisional Constants.

A B C  
-01772 +01123 -0485

D E F  
-01122 -01742 -2573

Mag. = 16.2 - 0.94√d

No.	d	x	y
47701	13	1.690	0.190
47702	12	1.920	0.377
47703	16	3.130	0.851
47704	32	6.715	0.148
47705	24	8.029	0.760
47706	40	19.358	0.688
47707	28	23.191	0.953
47708	25	23.315	0.402
47709	41	23.458	0.515
47710	24	24.496	0.404
47711	40	25.626	0.514
47712	40	1.263	1.818
47713	40	2.174	1.488
47714	44	5.447	1.606
47715	36	11.578	1.028
47716	41	18.185	1.246
47717	20	22.178	1.726
47718	28	23.970	1.550
47719	40	11.524	2.964
47720	31	14.882	2.580
47721	39	16.509	2.920
47722	13	24.005	2.360
47723	41	0.096	3.046
47724	18	1.046	3.781
47725	40	9.836	3.196
47726	43	11.208	3.830
47727	26	12.292	3.186
47728	38	14.960	3.805
47729	34	20.920	3.746
47730	25	25.082	3.775
47731	71	0.658	4.822
47732	22	2.014	4.229
47733	29	8.610	4.598
47734	25	22.188	4.080
47735	30	22.372	4.874
47736	41	25.530	4.650
47737	40	1.486	5.614
47738	33	6.156	5.079
47739	31	7.724	5.961
47740	20	9.156	5.118
47741	17	10.790	5.588
47742	13	12.433	5.774
47743	31	17.442	5.522
47744	40	20.889	5.542
47745	26	22.540	5.316
47746	18	22.784	5.083
47747	12	0.516	6.288
47748	12	4.023	6.345
47749	28	9.446	6.396
47750	60	15.133	6.940
47751	37	25.690	6.058
47752	29	12.940	7.330
47753	29	4.106	8.370
47754	38	4.237	8.614
47755	31	8.426	8.872

R.A. 13<sup>h</sup> 44<sup>m</sup>

Plate 1620; 1920 Mar. 15.

## Provisional Constants.

A B C  
-01751 +00621 -0714

D E F  
-00609 -01759 -1965

Mag. = 16.3 - 0.94√d

No.	d	x	y
47901	25	1.150	0.371
47902	26	1.276	0.718
47903	41	1.417	0.830
47904	25	2.460	0.770
47905	35	2.668	0.688
47906	38	3.586	0.810
47907	54	6.291	0.378
47908	38	7.481	0.925
47909	16	8.586	0.518
47910	29	10.559	0.937
47911	19	14.714	0.934
47912	25	16.464	0.384
47913	41	23.908	0.628
47914	13	25.746	0.430
47915	12	0.948	1.108
47916	27	1.940	1.860
47917	39	4.408	1.082
47918	28	4.970	1.312
47919	16	5.830	1.606
47920	29	6.291	1.356
47921	13	9.142	1.600
47922	22	15.858	1.739
47923	10	18.593	1.018
47924	12	18.762	1.662
47925	39	18.876	1.716
47926	19	22.348	1.718
47927	36	23.174	1.215
47928	38	23.729	1.240
47929	10	0.126	2.837
47930	21	0.151	2.052
47931	21	1.836	2.670
47932	19	1.983	2.670
47933	39	7.077	2.882
47934	24	7.285	2.502
47935	14	7.291	2.487
47936	24	15.660	2.770
47937	25	15.884	2.612
47938	16	16.732	2.922
47939	11	19.008	2.020
47940	20	8.666	3.193
47941	44	12.823	3.979
47942	23	16.659	3.945
47943	21	17.054	3.997
47944	10	20.470	3.412
47945	44	20.543	3.990
47946	16	21.064	3.606
47947	25	22.848	3.582
47948	24	0.178	4.406
47949	29	3.068	4.078
47950	43	3.522	4.948
47951	43	7.628	4.918
47952	17	8.935	4.461
47953	40	10.355	4.578
47954	26	13.551	4.956
47955	11	18.325	4.857

47956	10	19.562	4.288
47957	34	23.569	4.441
47958	34	24.054	4.748
47959	26	0.368	5.200
47960	24	0.539	5.638
47961	21	0.780	5.404
47962	19	4.578	5.432
47963	46	5.552	5.886
47964	19	9.550	5.472
47965	10	10.224	5.828
47966	21	12.635	5.664
47967	14	15.270	5.378
47968	14	16.951	5.837
47969	20	17.620	5.374
47970	18	18.746	5.534
47971	34	19.268	5.506
47972	14	20.026	5.328
47973	30	20.720	5.780
47974	10	23.620	5.880
47975	31	23.995	5.358
47976	20	25.281	5.836
47977	44	25.403	5.708
47978	39	25.480	5.312
47979	37	3.093	6.354
47980	37	7.567	6.974
47981	30	15.778	6.048
47982	10	16.950	6.661
47983	12	17.824	6.231
47984	33	17.898	6.886
47985	14	18.858	6.986
47986	22	19.412	6.948
47987	22	20.060	6.524
47988	26	21.234	6.748
47989	10	3.418	7.044
47990	18	4.026	7.090
47991	24	7.906	7.330
47992	27	8.772	7.104
47993	22	11.492	7.829
47994	20	12.779	7.541
47995	58	13.824	7.818
47996	43	17.075	7.602
47997	16	17.851	7.818
47998	22	19.082	7.882
47999	20	20.126	7.428
48000	39	21.924	7.151
48001	12	22.198	7.314
48002	27	23.594	7.662
48003	38	24.362	7.610
48004	13	25.719	7.518
48005	11	1.430	8.956
48006	12	2.556	8.520
48007	10	5.330	8.271
48008	42	8.064	8.296
48009	68	10.030	8.481
48010	28	11.310	8.042
48011	20	15.291	8.550
48012	16	18.022	8.370
48013	10	19.168	8.545
48014	12	20.156	8.580
48015	32	24.872	8.218
48016	44	24.02	9.197
48017	14	3.868	9.726
48018	12	14.319	9.607
48019	19	15.806	9.412
48020	15	17.838	9.756
48021	13	20.262	9.564
48022	24	24.355	9.173
48023	54	25.236	9.403
48024	34	25.464	9.115
48025	14	1.718	10.538
48026	15	4.660	10.320
48027	12	7.236	10.204

48028	34	15-081	10-520	48100	14	0-732	17-428	48172	20	11-984	23-419	48222	21	13-086	1-344	48294	11	7-295	6-802
48029	26	20-008	10-098	48101	17	0-799	17-421	48173	45	12-550	23-950	48223	59	13-571	1-910	48295	14	8-970	6-220
48030	11	21-301	10-444	48102	36	2-018	17-643	48174	24	14-528	23-503	48224	14	15-100	1-910	48296	15	9-782	6-710
48031	19	25-671	10-333	48103	31	2-970	17-559	48175	22	16-170	23-208	48225	11	15-973	1-132	48297	12	9-944	6-950
48032	30	0-474	11-346	48104	28	3-602	17-602	48176	43	16-230	23-622	48226	12	16-629	1-906	48298	24	10-016	6-960
48033	30	2-175	11-150	48105	21	6-626	17-407	48177	10	19-293	23-607	48227	34	18-402	1-111	48299	25	11-017	6-735
48034	10	5-251	11-100	48106	22	7-208	17-773	48178	24	0-994	24-960	48228	16	19-439	1-925	48300	16	11-924	6-284
48035	23	21-244	11-320	48107	19	8-657	17-658	48179	29	4-187	24-310	48229	37	23-512	1-874	48301	12	14-064	6-894
48036	20	21-370	11-914	48108	10	12-828	17-190	48180	50	6-515	24-056	48230	22	24-552	1-640	48302	13	16-142	6-294
48037	10	22-966	11-475	48109	20	14-390	17-210	48181	22	7-922	24-256	48231	15	25-754	1-666	48303	14	16-946	6-806
48038	40	25-030	11-900	48110	20	16-323	17-283	48182	31	12-182	24-568	48232	14	5-432	2-946	48304	17	16-975	6-312
48039	20	25-714	11-804	48111	38	3-256	18-698	48183	38	13-368	24-824	48233	29	9-275	2-542	48305	32	17-408	6-230
48040	19	0-644	12-508	48112	23	10-916	18-250	48184	23	14-880	24-476	48234	17	9-679	2-326	48306	17	17-458	6-614
48041	36	0-710	12-562	48113	18	12-514	18-701	48185	15	15-824	24-259	48235	13	10-564	2-748	48307	14	17-911	6-372
48042	18	3-986	12-710	48114	38	14-866	18-988	48186	30	16-306	24-064	48236	41	11-954	2-547	48308	32	24-884	6-348
48043	19	4-276	12-092	48115	10	15-690	18-994	48187	33	17-180	24-502	48237	13	11-984	2-384	48309	12	0-140	7-462
48044	26	5-178	12-550	48116	22	19-018	18-236	48188	22	17-606	24-790	48238	28	12-142	2-272	48310	22	1-540	7-782
48045	21	9-005	12-055	48117	25	19-134	18-231	48189	50	22-473	24-493	48239	24	12-606	2-145	48311	31	2-302	7-717
48046	18	13-983	12-962	48118	14	19-574	18-148	48190	17	22-894	24-998	48240	12	17-250	2-830	48312	15	3-664	7-602
48047	14	15-624	12-404	48119	10	20-358	18-601	48191	11	24-580	24-317	48241	12	19-922	2-854	48313	12	4-532	7-944
48048	17	16-500	12-902	48120	48	21-424	18-876	48192	57	25-000	24-862	48242	24	0-721	3-716	48314	24	4-834	7-700
48049	14	17-994	12-906	48121	16	21-704	18-011	48193	31	0-590	25-037	48243	16	5-422	3-861	48315	24	5-812	7-925
48050	19	19-967	12-492	48122	11	24-286	18-133	48194	22	7-067	25-730	48244	13	6-314	3-386	48316	12	0-033	7-443
48051	12	21-913	12-448	48123	12	3-805	19-087	48195	15	15-675	25-041	48245	12	6-965	3-780	48317	19	8-138	7-056
48052	25	23-240	12-802	48124	22	8-326	19-161	48196	43	19-526	25-784	48246	23	8-591	3-156	48318	12	9-453	7-548
48053	38	24-530	12-395	48125	13	8-841	19-150	48197	20	20-208	25-038	48247	24	9-318	3-484	48319	15	12-409	7-593
48054	39	25-729	12-044	48126	10	10-809	19-976	48198	11	22-080	25-110	48248	18	9-382	3-546	48320	12	13-784	7-686
48055	24	1-408	13-388	48127	11	11-207	19-542	48249				48249	12	11-225	3-484	48321	22	14-492	7-212
48056	18	2-734	13-128	48128	15	11-406	19-454	48250	12	11-092	3-273	48251	22	12-575	3-938	48322	26	23-860	7-358
48057	17	3-419	13-966	48129	18	12-024	19-864	48252	16	12-630	3-816	48253	16	16-880	3-812	48323	24	24-392	7-946
48058	23	4-304	13-702	48130	25	12-663	19-750	48254	11	22-550	3-497	48255	12	25-786	3-696	48324	21	25-530	7-240
48059	14	4-782	13-976	48131	38	14-377	19-208	48256	12	25-880	3-082	48256	12	25-880	3-082	48325	28	8-226	8-316
48060	21	5-988	13-229	48132	14	14-574	19-584	48257	28	1-454	4-504	48257	28	1-454	4-504	48326	24	4-236	8-639
48061	14	11-298	13-274	48133	26	14-901	19-636	48258	11	9-932	4-686	48258	11	9-932	4-686	48327	12	11-742	8-516
48062	38	16-802	13-100	48134	22	15-028	19-067	48259	36	1-046	4-862	48259	36	1-046	4-862	48328	16	12-694	8-188
48063	19	18-153	13-758	48135	31	18-968	19-790	48260	13	5-920	4-774	48260	13	5-920	4-774	48329	11	13-759	8-044
48064	20	19-046	13-778	48136	10	24-122	19-411	48261	15	7-504	4-690	48261	15	7-504	4-690	48330	23	16-394	8-884
48065	21	19-152	13-534	48137	19	25-414	19-112	48262	15	10-282	4-106	48262	15	10-282	4-106	48331	12	19-541	8-077
48066	12	25-524	13-376	48138	18	20-500	20-722	48263	39	14-902	4-322	48263	39	14-902	4-322	48332	12	19-784	8-810
48067	19	25-812	13-202	48139	19	3-874	20-734	48264	19	16-840	4-090	48264	19	16-840	4-090	48333	21	20-006	8-474
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48073	20	15-866	14-796	48145	14	22-524	20-100	48270	26	25-642	4-939	48270	26	25-642	4-939	48339	64	3-200	9-494
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48076	21	21-425	14-099	48148	26	3-925	21-783	48273	44	3-312	5-798	48273	44	3-312	5-798	48342	98	4-376	9-614
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48079	20	1-468	15-790	48151	31	14-207	21-598	48276	12	4-695	5-116	48276	12	4-695	5-116	48345	23	8-225	9-496
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48081	19	5-012	15-858	48153	29	24-426	21-792	48278	15	6-252	5-594	48278	15	6-252	5-594	48347	19	19-114	9-564
48082	21	5-790	15-762	48154	18	1-689	22-758	48279	18	9-300	5-878	48279	18	9-300	5-878	48348	12	22-086	9-452
48083	65	11-392	15-176	48155	29	4-973	22-322	48280	22	11-875	5-559	48280	22	11-875	5-559	48349	16	23-379	9-341
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48086	19	14-808	15-129	48158	35	13-341	22-260	48283	18	18-076	5-825	48283	18	18-076	5-825	48352	12	3-798	10-032
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48088	20	19-866	15-078	48160	30	18-883	22-265	48285	33	20-084	5-891	48285	33	20-084	5-891	48354	55	7-001	10-032
48089	14	20-460	15-982	48161	23	20-224	22-497	48286	23	24-860	5-534	48286	23	24-860	5-534	48355	20	7-250	10-966
48090	13	25-628	15-383	48162	11														



48366	36	25°18'	10°47'	48438	22	16°04'	17°17'	48510	12	2°56'	23°52'	48570*	48	20°48'	1°47'	48642	27	18°43'	6°26'
48367	42	3°04'	11°06'	48439	15	17°32'	17°16'	48511	12	5°45'	23°51'	48571	32	1°44'	2°22'	48643	13	19°23'	6°034
48368	18	3°73'	11°88'	48440	12	19°68'	17°21'	48512	15	5°26'	23°51'	48572*	49	4°57'	2°92'	48644	34	21°774	6°416
48369	12	5°23'	11°53'	48441	44	22°44'	17°31'	48513	15	9°66'	23°08'	48573	27	7°684	2°314	48645	28	1°70	7°700
48370*	52	8°173	11°126	48442	12	23°054	17°453	48514	13	12°166	23°492	48574	14	10°970	2°641	48646	19	3°357	7°560
48371	16	14°270	11°882	48443	28	23°350	17°852	48515	44	14°262	23°016	48575	13	12°746	2°791	48647	10	4°290	7°250
48372	16	14°434	11°377	48444	15	2°416	18°240	48516	16	17°578	23°376	48576	26	12°810	2°210	48648	13	5°216	7°684
48373	14	16°746	11°264	48445	16	4°584	18°895	48517*	55	19°482	23°481	48577	13	13°227	2°176	48649	12	8°464	7°002
48374	11	21°470	11°976	48446	12	7°104	18°454	48518	35	20°820	23°398	48578	20	15°724	2°314	48650	11	8°806	7°306
48375	12	24°240	11°808	48447	21	7°896	18°008	48519	32	22°034	23°923	48579	10	15°882	2°667	48651	12	9°484	7°226
48376	19	1°276	12°926	48448	32	8°774	18°452	48520*	59	0°709	24°634	48580	23	16°020	2°989	48652	10	10°230	7°630
48377	37	2°556	12°500	48449	34	8°930	18°530	48521	13	2°820	24°418	48581	13	16°034	2°161	48653	15	16°244	7°388
48378	38	3°750	12°126	48450*	97	12°456	18°744	48522*	62	3°239	24°954	48582	14	18°120	2°793	48654	26	17°520	7°792
48379	20	6°577	12°905	48451	12	25°464	18°984	48523	22	8°513	24°906	48583*	42	18°190	2°810	48655	28	23°053	7°940
48380	40	7°870	12°194	48452	12	25°600	18°444	48524	16	9°830	24°716	48584	16	19°068	2°994	48656	41	23°300	7°834
48381*	49	10°060	12°810	48453	13	2°275	19°222	48525	41	15°090	24°800	48585	19	22°207	2°910	48657	10	24°498	7°374
48382	40	15°458	12°491	48454	17	3°559	19°198	48526	12	16°018	24°282	48586	10	25°729	2°987	48658	26	2°408	8°280
48383	18	20°618	12°256	48455	19	6°226	19°190	48527	36	18°012	24°582	48587	13	3°31	3°394	48659	27	7°814	8°872
48384	24	20°786	12°083	48456	12	7°594	19°842	48528	38	18°130	24°556	48588	14	4°675	3°458	48660	20	10°136	8°310
48385	13	22°822	12°936	48457	54	7°786	19°098	48529	16	20°830	24°022	48589*	46	5°060	3°529	48661	14	12°715	8°188
48386	11	1°959	13°497	48458	15	8°952	19°045	48530	14	22°134	24°020	48590	25	5°294	3°811	48662	10	16°570	8°090
48387	14	3°571	13°462	48459	26	9°562	19°922	48531	13	0°334	25°256	48591	10	6°106	3°400	48663	13	16°912	8°271
48388	14	3°856	13°374	48460	14	10°244	19°651	48532	17	1°148	25°132	48592	11	11°799	3°035	48664	14	19°064	8°980
48389	11	6°624	13°012	48461*	100	11°168	19°700	48533	17	7°864	25°592	48593	28	15°774	3°191	48665	16	20°510	8°611
48390	18	15°900	13°128	48462	23	14°006	19°934	48534	21	15°492	25°022	48594	14	18°263	3°024	48666	26	23°402	8°250
48391	13	16°345	13°270	48463	24	14°394	19°202	48535	25	20°934	25°966	48595	26	20°250	3°324	48667	11	0°126	9°815
48392	12	17°420	13°516	48464	13	14°652	19°391	48536	14	22°030	25°102	48596	25	23°530	3°687	48668	14	1°116	9°687
48393	15	18°800	13°852	48465	16	15°244	19°856	48537	32	24°846	25°458	48597	16	25°054	3°900	48669	26	2°138	9°053
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48397	14	7°136	14°474	48469	12	20°392	19°401					48601	15	3°746	4°012	48673	20	5°225	9°826
48398	24	8°098	14°752	48470	21	20°882	19°752					48602	19	4°170	4°471	48674	17	7°450	9°098
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48401	15	13°840	14°690	48473	31	3°289	20°392					48605	16	8°416	4°170	48677	28	9°506	9°024
48402	12	19°514	14°916	48474	20	3°756	20°336					48606*	49	8°826	4°099	48678	10	9°990	9°128
48403	32	20°040	14°572	48475	24	9°194	20°100					48607	19	9°332	4°876	48679	11	10°604	9°246
48404	22	24°169	14°664	48476	26	11°939	20°324					48608	15	9°360	4°106	48680	28	12°712	9°929
48405	14	24°236	14°657	48477	17	10°090	20°614					48609*	54	9°487	4°162	48681	19	12°760	9°577
48406	12	24°728	14°122	48478	19	16°374	20°338					48610	27	10°310	4°351	48682	24	13°410	9°670
48407	16	25°465	14°334	48479	22	16°662	20°955					48611	27	11°689	4°264	48683	11	17°636	9°500
48408	15	3°708	15°466	48480	39	17°392	20°584					48612	19	12°376	4°159	48684*	50	19°250	9°106
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48410	16	5°024	15°575	48482	28	9°194	21°329					48614	10	14°916	4°807	48686	11	22°612	9°850
48411	14	5°516	15°882	48483	22	8°869	21°015					48615	14	15°608	4°411	48687	15	24°240	9°657
48412*	60	7°183	15°678	48484	12	10°322	21°651					48616	11	16°756	4°650	48688	12	24°420	9°760
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48416	21	19°701	15°218	48488*	39	15°442	21°474					48620	25	24°398	4°500	48692	14	4°988	10°400
48417	23	20°144	15°140	48489*	62	15°864	21°340					48621*	48	2°536	5°566	48693	12	5°940	10°309
48418	20	21°721	15°692	48490	23	16°338	21°105					48622	28	3°016	5°256	48694	24	6°080	10°971
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48714	10	14-247	11-829	48786	11	2-254	16-496	48858	23	13-778	21-130	48930	28	12-178	25-809	48994	24	24-527	3-509
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( 139 )

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50513	20	2-788	22-140					50675	23	11-396	5-484	50747	12	18-148	11-820	50819	33	7-694	18-526
50514	29	4-994	22-672					50676	21	12-882	5-660	50748	11	18-431	11-060	50820	25	7-844	18-868
50515	16	9-370	22-390					50677	26	15-654	5-281	50749	30	20-630	11-278	50821	29	13-009	18-244
50516	14	15-065	22-190					50678	29	18-162	5-481	50750	31	20-683	11-472	50822	17	15-861	18-181
50517	16	17-414	22-930					50679	31	19-677	5-860	50751	13	22-269	11-446	50823	21	17-714	18-861
50518	18	19-186	22-154					50680	16	20-992	5-981	50752	16	25-360	11-252	50824	12	19-837	18-801
50519	20	19-456	22-475					50681	15	21-986	5-531	50753	25	25-685	11-436	50825	39	20-261	18-770
50520	14	19-799	22-224					50682	13	23-098	5-058	50754	35	0-340	12-435	50826	19	20-864	18-246
50521	12	20-645	22-082					50683	21	24-232	5-266	50755	12	1-156	12-137	50827	12	21-652	18-947
50522	17	21-798	22-392					50684	10	1-794	6-651	50756	12	10-542	12-396	50828	30	22-042	18-192
50523	16	23-066	22-224					50685	18	2-306	6-666	50757	10	10-577	12-282	50829	25	22-776	18-838
50524	38	25-908	22-261					50686	13	3-256	6-432	50758	19	12-066	12-400	50830	31	2-872	19-548
50525	32	0-226	23-169					50687	10	13-238	6-761	50759	12	12-810	12-574	50831	29	4-566	19-446
50526	12	2-342	23-494					50688	10	18-256	6-798	50760	30	13-576	12-883	50832	46	8-559	19-522
50527	12	4-160	23-983					50689	24	19-280	6-822	50761	31	15-063	12-650	50833	12	10-704	19-570
50528	16	4-289	23-460					50690	26	19-853	6-842	50762	14	18-700	12-197	50834	10	11-872	19-110
50529	14	5-962	23-622					50691	42	24-226	6-972	50763	27	20-050	12-664	50835	16	14-786	19-330
50530	12	5-980	23-294					50692	17	1-934	7-224	50764	26	20-276	12-090	50836	17	17-233	19-266
50531	30	9-686	23-158					50693	31	5-227	7-370	50765	43	20-972	12-951	50837	19	18-764	19-249
50532	12	11-380	23-244					50694	35	10-910	7-328	50766*	46	0-242	13-254	50838	11	19-640	19-942
50533	14	13-164	23-414					50695	37	12-958	7-318	50767	25	5-160	13-874	50839	10	19-660	19-630
50534	12	14-908	23-114					50696	11	15-944	7-548	50768	12	5-715	13-813	50840	38	22-118	19-224
50535	12	15-686	23-695					50697	14	17-614	7-374	50769	28	13-722	13-279	50841	11	22-620	19-402
50536	12	18-034	23-770					50698	12	17-618	7-074	50770	24	17-275	13-630	50842	39	24-000	19-000
50537	20	18-923	23-973					50699*	56	20-066	7-391	50771	10	20-196	13-080	50843	16	24-144	19-102
50538	16	19-440	23-600					50700	28	21-235	7-906	50772	17	21-280	13-712	50844	17	25-706	19-448
50539	22	23-842	23-748					50701	10	24-298	7-303	50773	14	1-088	14-012	50845	37	3-276	20-226
50540	18	0-716	24-946					50702	10	2-236	8-60								



50851*	44	11° 8' 11"	20° 44' 2"	50951*	45	0° 43' 6"	0° 43' 6"	51006	18	20° 53' 4"	4° 17' 2"	51078	29	24° 19' 8"	10° 88' 3"	51150	15	22° 70' 8"	16° 66' 8"
50852	40	17° 32' 2"	20° 95' 0"	50952*	82	0° 48' 8"	0° 48' 8"	51007	17	22° 36' 3"	4° 31' 2"	51079	12	0° 21' 2"	11° 69' 0"	51151	18	23° 36' 0"	16° 43' 6"
50853	20	20° 39' 5"	20° 60' 0"	50953	22	2° 27' 5"	0° 82' 2"	51008	20	22° 98' 5"	4° 10' 5"	51080	12	0° 74' 6"	11° 17' 8"	51152	20	0° 96' 0"	17° 70' 2"
50854	10	22° 42' 0"	20° 27' 8"	50954	18	3° 45' 5"	0° 95' 0"	51009	23	25° 06' 8"	4° 47' 1"	51081	17	2° 94' 8"	11° 06' 7"	51153	18	1° 79' 0"	17° 95' 6"
50855	34	1° 55' 0"	21° 46' 2"	50955	36	3° 79' 7"	0° 49' 5"	51010	13	0° 94' 9"	5° 29' 7"	51082	12	3° 30' 1"	11° 45' 4"	51154	24	2° 41' 8"	17° 91' 2"
50856	14	1° 64' 9"	21° 08' 8"	50956	26	5° 50' 3"	0° 49' 5"	51011	19	2° 08' 8"	5° 48' 6"	51083	20	3° 63' 0"	11° 63' 6"	51155*	57	9° 23' 1"	17° 42' 4"
50857	29	4° 28' 7"	21° 77' 2"	50957	21	5° 93' 7"	0° 72' 4"	51012*	45	15° 34' 2"	5° 69' 4"	51084	24	6° 38' 8"	11° 69' 8"	51156	10	10° 80' 3"	17° 33' 8"
50858	26	8° 28' 5"	21° 57' 4"	50958	12	9° 63' 7"	0° 04' 4"	51013	24	17° 47' 1"	5° 90' 2"	51085	12	17° 87' 2"	11° 13' 5"	51157	27	14° 03' 3"	17° 96' 4"
50859	42	9° 97' 4"	21° 49' 8"	50959	10	10° 71' 4"	0° 14' 6"	51014	20	27° 55' 0"	5° 60' 9"	51086	18	23° 58' 6"	11° 76' 4"	51158	18	14° 60' 0"	17° 28' 0"
50860	18	9° 25' 4"	21° 87' 0"	50960	16	12° 56' 3"	0° 39' 4"	51015	10	21° 42' 0"	5° 81' 8"	51087	11	24° 96' 8"	11° 66' 0"	51159	23	16° 60' 0"	17° 09' 4"
50861*	44	12° 51' 7"	21° 11' 2"	50961*	43	15° 45' 4"	0° 93' 2"	51016	16	22° 31' 8"	5° 77' 9"	51088	15	4° 01' 6"	12° 34' 2"	51160	23	17° 25' 6"	17° 64' 8"
50862	16	15° 45' 9"	21° 86' 2"	50962*	41	15° 66' 8"	0° 72' 0"	51017	50	25° 37' 2"	5° 96' 0"	51089*	67	4° 23' 6"	12° 49' 2"	51161	29	17° 25' 7"	17° 35' 1"
50863	25	17° 27' 6"	21° 37' 6"	50963	38	16° 21' 0"	0° 73' 4"	51018	10	3° 27' 8"	6° 43' 6"	51090	37	4° 27' 4"	12° 49' 6"	51162	18	17° 90' 4"	17° 28' 6"
50864	38	18° 78' 2"	21° 01' 8"	50964	11	18° 68' 8"	0° 52' 1"	51019	10	3° 56' 0"	6° 20' 2"	51091	31	4° 87' 6"	12° 39' 2"	51163	18	19° 31' 1"	17° 09' 0"
50865	26	22° 03' 4"	21° 98' 8"	50965	25	23° 81' 8"	0° 98' 8"	51020	12	4° 21' 2"	6° 18' 5"	51092	28	5° 77' 4"	12° 86' 2"	51164	16	21° 02' 3"	17° 02' 6"
50866	30	24° 27' 4"	21° 46' 9"	50966	25	23° 81' 8"	0° 98' 8"	51021	20	5° 01' 3"	6° 16' 9"	51093	11	7° 87' 5"	12° 82' 8"	51165	10	21° 82' 0"	17° 59' 4"
50867	22	24° 86' 4"	21° 41' 1"	50967	10	10° 71' 4"	0° 14' 6"	51022	27	6° 98' 1"	6° 08' 6"	51094	11	9° 04' 2"	12° 08' 1"	51166	27	23° 61' 6"	17° 05' 8"
50868	30	0° 04' 7"	22° 53' 8"	50968	14	9° 80' 6"	1° 48' 0"	51023	21	9° 45' 8"	6° 70' 5"	51095	23	10° 87' 7"	12° 17' 0"	51167	20	23° 89' 8"	17° 51' 4"
50869	30	1° 31' 5"	22° 35' 6"	50969	38	16° 21' 0"	0° 73' 4"	51024*	38	14° 05' 4"	6° 58' 8"	51096	10	11° 41' 0"	12° 79' 9"	51168	13	24° 58' 7"	17° 07' 0"
50870	20	3° 28' 5"	22° 07' 6"	50970	38	16° 21' 0"	0° 73' 4"	51025	12	15° 64' 3"	6° 14' 5"	51097	11	15° 13' 9"	12° 65' 5"	51169	12	25° 36' 6"	17° 89' 8"
50871*	46	4° 15' 3"	22° 36' 2"	50971	12	18° 88' 0"	1° 28' 8"	51026	10	18° 91' 1"	6° 15' 0"	51098	12	16° 24' 2"	12° 94' 2"	51170	28	0° 08' 5"	18° 44' 3"
50872	20	4° 48' 3"	22° 57' 1"	50972	32	25° 35' 1"	1° 82' 2"	51027	30	19° 88' 9"	6° 09' 4"	51099	15	18° 78' 5"	12° 35' 8"	51171	19	4° 88' 3"	18° 27' 4"
50873	11	5° 00' 0"	22° 54' 4"	50973	38	16° 21' 0"	0° 73' 4"	51028	18	21° 36' 3"	6° 37' 5"	51100	13	19° 74' 6"	12° 85' 8"	51172	25	5° 99' 4"	18° 09' 0"
50874	10	6° 20' 4"	22° 48' 8"	50974	17	22° 69' 2"	1° 40' 6"	51029	38	2° 10' 5"	7° 19' 2"	51101	18	20° 00' 0"	12° 78' 6"	51173	12	7° 52' 9"	18° 51' 4"
50875	20	6° 47' 4"	22° 46' 8"	50975	32	25° 35' 1"	1° 82' 2"	51030	10	2° 18' 5"	7° 52' 4"	51102	10	21° 38' 4"	12° 43' 8"	51174	13	8° 23' 6"	18° 65' 2"
50876	22	7° 11' 6"	22° 39' 0"	50976	35	0° 31' 4"	0° 64' 2"	51031*	56	7° 45' 4"	7° 60' 0"	51103*	61	24° 31' 0"	12° 45' 1"	51175	14	8° 42' 4"	18° 40' 0"
50877	12	7° 59' 0"	22° 91' 4"	50977	19	3° 42' 1"	2° 40' 8"	51032	20	12° 18' 6"	7° 47' 2"	51104	25	10° 82' 0"	13° 14' 5"	51176	17	14° 99' 0"	18° 58' 6"
50878	15	9° 17' 4"	22° 74' 6"	50978	29	4° 91' 1"	2° 34' 7"	51033	29	12° 02' 4"	7° 14' 8"	51105	18	13° 25' 3"	13° 10' 8"	51177	23	18° 47' 9"	18° 94' 1"
50879	28	9° 79' 6"	22° 80' 8"	50979	38	16° 21' 0"	0° 73' 4"	51034	10	13° 25' 9"	7° 07' 5"	51106*	39	18° 30' 0"	13° 80' 6"	51178	25	21° 64' 1"	18° 94' 0"
50880	26	9° 89' 3"	22° 97' 2"	50980	17	6° 40' 1"	2° 23' 1"	51035	10	13° 29' 0"	7° 82' 0"	51107	44	22° 01' 8"	13° 16' 0"	51179	13	22° 44' 8"	18° 09' 0"
50881	15	13° 11' 5"	22° 60' 1"	50981	27	8° 97' 2"	2° 40' 2"	51036	34	14° 12' 2"	7° 34' 8"	51108	19	23° 27' 8"	13° 39' 2"	51180	14	22° 77' 3"	18° 81' 2"
50882	10	13° 50' 2"	22° 28' 6"	50982	10	11° 89' 0"	2° 86' 0"	51037*	60	16° 60' 8"	7° 86' 5"	51109	11	0° 72' 0"	14° 29' 6"	51181	19	23° 25' 1"	18° 47' 0"
50883	11	13° 73' 4"	22° 22' 8"	50983	11	16° 47' 0"	2° 84' 4"	51038	26	19° 34' 4"	7° 26' 6"	51110	36	1° 20' 5"	14° 59' 0"	51182	24	24° 32' 4"	18° 69' 4"
50884	31	17° 24' 4"	22° 90' 9"	50984	22	22° 75' 1"	2° 58' 2"	51039	22	20° 11' 0"	7° 94' 7"	51111	24	4° 23' 6"	14° 74' 2"	51183	33	0° 17' 5"	19° 47' 2"
50885	11	19° 70' 8"	22° 41' 0"	50985	32	23° 49' 4"	2° 46' 0"	51040	12	22° 09' 0"	7° 02' 8"	51112	19	4° 25' 5"	14° 43' 0"	51184	18	0° 82' 9"	19° 07' 8"
50886	16	21° 59' 5"	22° 42' 3"	50986	41	4° 21' 0"	0° 64' 2"	51041	12	23° 57' 7"	7° 14' 3"	51113	20	7° 17' 8"	14° 00' 8"	51185	39	2° 05' 4"	19° 22' 0"
50887	35	2° 10' 6"	23° 87' 2"	50987	19	3° 42' 1"	2° 40' 8"	51042	17	1° 30' 5"	8° 50' 1"	51114	18	8° 02' 9"	14° 64' 9"	51186	10	22° 00' 0"	19° 32' 2"
50888	11	4° 21' 6"	23° 57' 2"	50988	10	7° 42' 4"	3° 04' 3"	51043	19	4° 14' 1"	8° 35' 2"	51115	38	19° 07' 0"	14° 37' 8"	51187	16	3° 76' 6"	19° 64' 4"
50889	12	8° 22' 0"	23° 76' 9"	50989	15	9° 66' 0"	3° 05' 6"	51044	25	6° 89' 2"	8° 42' 8"	51116	37	21° 01' 2"	14° 14' 2"	51188	10	5° 16' 2"	19° 14' 4"
50890	31	9° 66' 0"	23° 82' 0"	50990	20	22° 34' 0"	3° 05' 6"	51045	13	8° 94' 2"	8° 41' 9"	51117	19	21° 31' 6"	14° 09' 2"	51189	11	0° 33' 2"	19° 50' 0"
50891	18	10° 35' 4"	23° 19' 6"	50991	19	14° 14' 7"	3° 08' 8"	51046	10	10° 38' 1"	8° 94' 8"	51118	22	21° 81' 8"	14° 83' 6"	51190	12	7° 53' 6"	19° 47' 2"
50892	10	16° 52' 0"	23° 85' 8"	50992	24	22° 83' 0"	3° 15' 7"	51047	19	15° 08' 0"	8° 54' 0"	51119	16	25° 08' 4"	14° 25' 7"	51191	18	9° 73' 8"	19° 54' 6"
50893	14	16° 76' 2"	23° 07' 2"	50993	20	22° 34' 0"	3° 15' 7"	51048	33	19° 34' 4"	8° 64' 8"	51120	26	1° 27' 1"	15° 14' 1"	51192	34	9° 97' 5"	19° 52' 2"
50894	14	19° 61' 0"	23° 15' 1"	50994	19	25° 50' 0"	3° 21' 5"	51049	37	19° 32' 4"	8° 66' 0"	51121	17	4° 23' 4"	15° 89' 4"	51193	28	11° 26' 5"	19° 58' 0"
50895	26	20° 33' 5"	23° 03' 6"	50995	14	0° 64' 2"	0° 64' 2"	51050	22	23° 37' 1"	8° 35' 2"	51122	15	5° 01' 1"	15° 42' 8"	51194	16	11° 44' 0"	19° 54' 0"
50896	20	24° 16' 4"	23° 94' 5"	50996	27	8° 97' 2"	2° 40' 2"	51051	19	24° 30' 4"	8° 91' 1"	51123	21	8° 02' 0"	15° 72' 1"	51195	12	11° 59' 2"	19° 56' 9"
50897*	38	4° 99' 6"	24° 26' 6"	50997	20	22° 34' 0"	3° 15' 7"	51052	78	25° 39' 8"	8° 05' 2"	51124	11	8° 19' 8"	15° 78' 1"	51196	20	12° 36' 4"	19° 69' 9"
50898	12	10° 25' 8"	24° 07' 4"	50998	15	9° 66' 0"	3° 05' 6"	51053	40	25° 87' 0"	8° 70' 4"	51125	12	9° 14' 4"	15° 45' 0"	51197	10	19° 55' 4"	19° 46' 6"
50899	66	11° 65' 4"	24° 89' 2"	50999	19	14° 14' 7"	3° 08' 8"	51054*	60	0° 76' 5"	9° 59' 0"	51126	20	9° 74' 8"	15° 75' 2"	51198	16	19° 81' 2"	19° 37' 0"
50900	14	11° 87' 9"	24° 36' 1"	51000	38	7° 68' 5"	4° 60' 4"	51055	20	5° 31' 2"	9° 77' 0"	51127	10	11° 36' 6"	15° 52' 2"	51199*	68	22° 20' 0"	19° 63' 7"
50901	35	16° 76' 5"	24° 80' 0"	51001	11	8° 10' 8"	4° 82' 2"	51056	10	6° 17' 6"	9° 31' 9"	51128*	36	15° 77' 8"	15° 88' 4"	51200	40	22° 38' 2"	19° 35' 6"
50902	28	17° 18' 2"	24° 16' 0"	51002	24	22° 83' 0"	3° 15' 7"	51057	22	9° 62' 6"	9° 07' 0"	51129	15	16° 39' 7"	15° 38' 8"	51201	47	23° 59' 8"	19° 13' 1"
50903	15	17° 40' 4"	24° 92' 6"	51003	18	17° 35' 1"	4° 81' 2"	51058	19	12° 17' 8"	9° 33' 8"	51130	14	20° 21' 1"	15° 07' 3"	51202	20	24° 80' 5"	19° 68' 8"
50904	10	17° 85' 7"	24° 05' 8"	51004	19	25° 50' 0"	3° 21' 5"	51059	11	16° 12' 6"	9° 54' 8"	51131	18	21° 62' 2"	15° 45' 1"	51203	31	25° 51'	

51222	19	5°723	22°820	51304	40	6°920	0°720	51376	28	25°538	5°308	51448	10	8°938	11°495	51520	16	5°195	17°213
51223	41	6°432	22°866	51305	12	13°662	0°490	51377	14	0°538	6°204	51449	11	19°566	11°180	51521	14	6°670	17°092
51224	10	6°492	22°408	51306	23	1°980	1°393	51378*	54	3°590	6°346	51450	23	20°684	11°725	51522	13	8°485	17°205
51225	20	6°995	22°088	51307	11	6°588	1°880	51379	22	4°902	6°060	51451	30	21°340	11°012	51523	12	14°240	17°599
51226	17	7°222	22°664	51308	12	7°021	1°066	51380	15	5°036	6°535	51452	29	24°500	11°518	51524	12	15°873	17°715
51227	30	12°564	22°070	51309	16	8°028	1°977	51381	12	7°240	6°578	51453	14	1°881	12°172	51525	14	16°501	17°338
51228	22	14°121	22°818	51310	13	11°534	1°132	51382	18	7°480	6°363	51454*	65	2°608	12°849	51526	11	16°960	17°511
51229	10	14°310	22°098	51311	14	17°373	1°978	51383	10	9°313	6°594	51455	12	3°260	12°050	51527	22	16°984	17°514
51230	10	14°886	22°157	51312	13	17°754	1°878	51384	25	9°878	6°629	51456	12	4°623	12°215	51528	20	17°469	17°485
51231	11	15°582	22°714	51313	24	20°109	1°786	51385	12	10°714	6°604	51457	12	7°210	12°390	51529	14	19°400	17°174
51232*	39	16°261	22°318	51314	13	0°862	2°160	51386	14	12°078	6°200	51458	14	7°911	12°580	51530	12	21°518	17°145
51233	10	17°892	22°358	51315	13	0°930	2°999	51387	10	14°089	6°350	51459*	40	10°507	12°640	51531	26	23°390	17°188
51234	18	18°038	22°150	51316	29	1°671	2°870	51388	12	16°216	6°540	51460	12	17°012	12°195	51532	12	24°288	17°948
51235	16	23°754	22°652	51317	29	3°519	2°210	51389	30	17°288	6°179	51461	19	18°782	12°475	51533	10	0°190	18°024
51236	41	24°638	22°119	51318	11	5°354	2°646	51390	11	19°255	6°029	51462*	35	19°096	12°203	51534	15	1°632	18°880
51237	10	10°854	23°317	51319	11	7°242	2°771	51391	20	20°820	6°984	51463	11	21°069	12°822	51535	13	3°740	18°281
51238	10	14°336	23°284	51320	31	9°660	2°130	51392	18	21°102	6°365	51464	10	21°007	12°592	51536	12	4°450	18°231
51239	20	15°580	23°870	51321	38	10°185	2°358	51393	13	23°409	6°220	51465	18	22°804	12°676	51537	25	5°710	18°490
51240	12	19°271	23°824	51322	35	10°954	2°535	51394	12	1°813	7°552	51466	17	22°958	12°069	51538	11	5°843	18°694
51241	11	21°851	23°660	51323	12	11°932	2°352	51395	10	1°882	7°534	51467	20	23°442	12°326	51539	18	7°206	18°108
51242	21	23°643	23°470	51324*	44	12°036	2°874	51396	11	3°951	7°939	51468	17	24°270	12°298	51540	10	11°425	18°973
51243	20	23°989	23°882	51325	17	12°708	2°050	51397	15	4°442	7°552	51469	12	25°146	12°002	51541	20	15°295	18°592
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				52057	30	22°450	3°784	52129	14	19°056	7°154	52201*	52	1°341	12°287	52273	12	6°534	16°940
				52058	37	23°064	3°166	52130	22	20°520	7°381	52202	15	1°452	12°410	52274*	39	8°520	16°714
				52059	12	25°318	3°851	52131	22	20°874	7°616	52203	15	3°468	12°184	52275	30	10°836	16°367
				52060	12	5°150	4°735	52132	17	21°498	7°956	52204	12	4°770	12°966	52276	12	11°519	16°271
				52061*	38	6°024	4°334	52133	18	22°519	7°342	52205	12	5°634	12°006	52277	20	12°722	16°344
				52062	34	17°410	4°220	52134	19	23°450	7°614	52206	39	6°110	12°816	52278	12	13°638	16°304
				52063	13	18°087	4°546	52135	15	24°834	7°025	52207*	49	7°676	12°331	52279	18	18°200	16°718
				52064	13	18°127	4°716	52136	12	25°836	7°502	52208	18	7°834	12°227	52280	15	21°502	16°456
				52065*	39	20°119	4°321	52137	18	0°834	8°896	52209	12	10°186	12°874	52281*	52	22°342	16°412
				52066	28	23°689	4°496	52138	14	1°026	8°126	52210	13	17°055	12°464	52282*	18	22°685	16°924
				52067	12	1°167	5°218	52139	12	2°278	8°478	52211	15	17°871	12°052	52283	12	23°453	16°385
				52068	22	2°106	5°675	52140	34	2°846	8°644	52212	13	19°350	12°988	52284	12	1°676	17°352
				52069	12	5°135	5°455	52141	12	2°862	8°572	52213	13	20°884	12°276	52285	12	3°428	17°356
				52070	12	5°832	5°674	52142	14	3°054	8°974	52214	12	23°017	12°276	52286	20	4°034	17°996
				52071	19	6°118	5°526	52143	12	5°459	8°854	52215	12	24°025	12°668	52287	12	4°755	17°256
				52072	13	6°209	5°611	52144	16	6°038	8°862	52216	15	24°516	12°542	52288	32	4°388	17°878
				52073	23	7°504	5°280	52145	12	7°409	8°055	52217	13	0°690	13°018	52289	18	6°164	17°554
				52074	12	7°938	5°120	52146*	62	10°583	8°682	52218	28	1°462	13°944	52290	12	6°964	17°836
				52075	15	10°448	5°551	52147	14	12°980	8°319	52219	34	2°629	13°360	52291	15	7°409	17°775
				52076	16	10°810	5°447	52148	12	13°532	8°952	52220	14	7°040	13°922	52292	22	10°996	17°004
				52077	22	14°170	5°206	52149	17	13°556	8°314	52221	22	10°104	13°454	52293	13	11°629	17°994
				52078	13	14°935	5°324	52150	17	20°580	8°506	52222	13	10°956	13°844	52294	23	11°834	17°734
				52079	37	15°152	5°226	52151	16	24°832	8°678	52223	15	13°166	13°494	52295	35	12°276	17°233
				52080	12	15°636	5°454	52152*	38	0°585	9°034	52224	20	14°365	13°850	52296	12	12°661	17°653
				52081	19	16°446	5°711	52153	12	1°834	9°106	52225	12	14°708	13°452	52297	19	15°334	17°807
				52082	12	17°408	5°638	52154	12	3°290	9°496	52226	11	16°708	13°138	52298	12	15°968	17°186
				52083	12	19°104	5°222	52155	12	3°705	9°714	52227	12	17°144	13°416	52299	13	19°645	17°435
				52084*	52	20°378	5°936	52156	14	4°376	9°770	52228	17	20°254	13°318	52300	13	20°005	17°452
				52085	30	20°690	5°552	52157	19	4°874	9°320	52229	12	20°421	13°354	52301	20	21°124	17°019
				52086	15	22°168	5°598	52158	12	6°088	9°054	52230	12	21°431	13°136	52302	23	22°972	17°934
				52087	12	24°335	5°576	52159	15	6°294	9°604	52231	12	23°610	13°456	52303	13	23°426	17°655
				52088	15	1°824	6°906	52160	24	7°231	9°923	52232*	48	3°754	14°901	52304	21	24°246	17°241
				52089	12	5°856	6°576	52161	12	8°422	9°162	52233	12	3°874	14°640	52305	12	24°816	17°024
				52090	16	6°407	6°523	52162	13	9°049	9°822	52234	12	4°608	14°756	52306	15	2°557	18°544
				52091	12	6°697	6°796	52163	21	14°724	9°081	52235	11	4°922	14°014	52307	15	4°284	18°878
				52092	12	6°958	6°911	52164	12	17°451	9°327	52236	11	7°094	14°262	52308*	76	4°574	18°812
				52093	29	7°000	6°384	52165	12	17°906	9°018	52237	23	8°372	14°256	52309	11	6°176	18°984
				52094	11	8°150	6°888	52166	28	19°764	9°476	52238	14	9°752	14°180	52310	12	8°495	18°604
				52095	12	8°324	6°814	52167	12	20°406	9°122	52239	12	11°661	14°454	52311	13	8°911	18°918
				52096	17	8°468	6°374	52168	16	20°794	9°325	52240	13	12°820	14°063	52312*	40	10°543	18°800
				52097	19	8°754	6°850	52169	12	20°936	9°446	52241	12	13°174	14°054	52313	14	10°837	18°341
				52098	12	9°996	6°185	52170	29	23°890	9°402	52242	12	14°172	14°095	52314	12	11°134	18°449
				52099	19	10°732	6°386	52171	15	25°314	9°729	52243	13	14°782	14°372				

## R.A. 15h 28m

Plate 1642; 1920 Apr. 15.

## Provisional Constants.

$$\begin{matrix} A & B & C \\ -0.1750 & +0.0462 & -0.0531 \end{matrix}$$

$$\begin{matrix} D & E & F \\ -0.0464 & -0.1755 & -5.605 \end{matrix}$$

$$\text{Mag.} = 16.5 - 0.94\sqrt{d}$$

No.	d	x	y
52501	26	0.429	0.736
52502	25	1.358	0.341
52503	19	2.452	0.335
52504	11	3.910	0.664
52505	14	9.309	0.454
52506	10	9.724	0.434
52507	17	11.118	0.428
52508	70	13.688	0.070
52509	31	16.770	0.550
52510	35	17.760	0.442
52511	32	18.609	0.424
52512	10	19.129	0.348
52513	20	24.370	0.982
52514	10	24.416	0.982
52515	41	24.815	0.762
52516	41	0.568	1.210
52517	17	0.820	1.894
52518	15	4.748	1.774
52519	11	5.134	1.370
52520	14	6.312	1.976
52521	35	7.860	1.093
52522	12	8.103	1.657
52523	15	8.998	1.260
52524	34	9.190	1.261
52525	10	10.102	1.492
52526	14	10.868	1.676
52527	18	11.334	1.114
52528	11	13.952	1.959
52529	45	22.324	1.386
52530	16	22.938	1.880
52531	35	23.404	1.088
52532	26	25.713	1.266
52533	13	4.330	2.139
52534	14	6.782	2.458
52535	31	10.060	2.924
52536	29	11.793	2.460
52537	25	12.040	2.858
52538	11	12.178	2.296
52539	26	12.194	2.502
52540	12	12.344	2.388
52541	16	12.670	2.609
52542	12	16.132	2.870
52543	16	20.032	2.562
52544	12	21.284	2.808
52545	10	23.132	2.504
52546	10	25.082	2.630
52547	10	25.675	2.658
52548	30	0.352	3.815
52549	17	1.334	3.015
52550	36	2.960	3.182
52551	11	3.224	3.861
52552	27	4.886	3.829
52553	18	7.398	3.913
52554	27	8.052	3.946
52555	10	8.954	3.556
52556	11	10.039	3.354
52557	10	15.709	3.192
52558	10	20.080	3.822
52559	29	20.608	3.244
52560	25	21.315	3.518
52561	10	22.026	3.075
52562	45	23.810	3.614
52563	76	25.772	3.558
52564	26	25.966	3.078
52565	30	1.594	4.520
52566	21	6.130	4.568
52567	14	7.010	4.045
52568	20	8.236	4.566
52569	33	14.462	4.867
52570	13	14.620	4.228
52571	30	14.807	4.752
52572	29	15.418	4.894
52573	16	16.290	4.836
52574	10	21.911	4.252
52575	18	24.487	4.700
52576	14	25.930	4.303
52577	13	0.082	5.628
52578	10	2.247	5.594
52579	16	3.976	5.554
52580	31	5.620	5.950
52581	13	7.666	5.505
52582	29	8.166	5.142
52583	13	8.860	5.048
52584	42	9.620	5.808
52585	15	12.130	5.262
52586	35	14.350	5.081
52587	68	19.074	5.212
52588	13	23.534	5.508
52589	13	23.596	5.404
52590	14	24.320	5.212
52591	10	2.862	6.020
52592	80	4.246	6.750
52593	19	4.676	6.890
52594	35	5.234	6.926
52595	35	7.188	6.129
52596	17	9.593	6.402
52597	12	11.610	6.854
52598	33	12.476	6.931
52599	31	13.554	6.199
52600	13	15.044	6.109
52601	12	20.898	6.444
52602	10	23.068	6.708
52603	12	23.297	6.939
52604	11	23.363	6.832
52605	11	24.094	6.586
52606	19	0.444	7.370
52607	25	1.376	7.638
52608	10	1.780	7.448
52609	15	2.758	7.038
52610	10	3.765	6.582
52611	40	4.362	7.550
52612	24	6.710	7.558
52613	10	6.944	7.600
52614	17	6.958	7.348
52615	120	8.224	7.780
52616	16	8.794	7.024
52617	31	11.185	7.304
52618	33	12.164	7.833
52619	32	14.471	7.708
52620	78	14.596	7.232
52621	12	15.003	7.718
52622	12	17.848	7.508
52623	12	18.479	7.240
52624	14	20.304	7.837
52625	12	20.754	7.704
52626	13	22.053	7.730
52627	16	2.766	8.602
52628	22	6.333	8.116
52629	22	6.850	8.610
52630	15	8.912	8.798
52631	41	10.825	8.253
52632	13	13.080	8.834
52633	29	18.025	8.646
52634	24	20.193	8.724
52635	35	20.680	8.688
52636	15	22.948	8.790
52637	34	1.827	9.424
52638	15	3.254	9.742
52639	13	3.664	9.954
52640	34	3.900	9.680
52641	10	5.064	9.603
52642	20	5.365	9.634
52643	11	5.568	9.164
52644	22	9.597	9.606
52645	10	10.134	9.738
52646	17	15.340	9.738
52647	32	15.943	9.072
52648	35	16.048	9.241
52649	45	16.470	9.880
52650	14	17.450	9.697
52651	108	22.833	9.634
52652	44	24.388	9.153
52653	10	25.036	9.552
52654	75	4.346	10.420
52655	30	7.366	10.648
52656	13	7.840	10.366
52657	10	14.716	10.518
52658	29	20.503	10.674
52659	21	21.594	10.680
52660	34	24.856	10.594
52661	12	0.348	11.543
52662	18	2.953	11.704
52663	40	3.626	11.880
52664	30	3.670	11.041
52665	33	3.7864	11.012
52666	10	11.758	11.366
52667	11	12.354	11.493
52668	17	12.025	11.564
52669	12	17.920	11.846
52670	39	24.079	11.070
52671	14	25.400	11.912
52672	16	2.476	12.556
52673	10	3.208	12.835
52674	17	6.180	12.619
52675	28	8.562	12.398
52676	13	9.510	12.318
52677	12	17.314	12.384
52678	31	24.056	12.085
52679	20	8.500	13.390
52680	10	12.365	13.378
52681	12	22.230	13.176
52682	12	23.187	13.370
52683	22	1.333	14.923
52684	23	3.625	14.798
52685	32	10.350	14.150
52686	13	12.240	14.334
52687	16	12.794	14.760
52688	11	18.262	14.894
52689	33	18.300	14.725
52690	12	18.415	14.266
52691	20	20.718	14.530
52692	10	20.734	14.900
52693	12	21.000	14.100
52694	33	24.613	14.450
52695	12	25.615	14.095
52696	16	0.736	15.020
52697	24	6.260	15.132
52698	31	10.430	15.375
52699	14	13.130	15.302



52700	10	13°572	15°511	52772	17	2°928	20°054	52844	21	10°472	25°804	52937	22	5°986	2°979	53009	24	9°043	6°878
52701	10	13°722	15°582	52773	31	4°249	20°028	52845	50	11°151	25°460	52938	10	6°917	2°090	53010	11	10°405	6°036
52702	10	15°189	15°810	52774	27	7°024	20°863	52846	12	14°810	25°882	52939	19	9°106	2°302	53011	18	12°157	6°372
52703	10	15°604	15°033	52775	43	9°122	20°433	52847	10	17°483	25°852	52940	32	9°580	2°960	53012	13	13°715	6°116
52704	17	19°011	15°590	52776	40	10°123	20°104	52848	26	19°252	25°622	52941	18	10°251	2°015	53013	24	14°676	6°610
52705	38	19°074	15°775	52777	42	14°186	20°006	52849	39	19°716	25°122	52942	20	17°179	2°076	53014	22	15°050	6°460
52706	10	19°740	15°462	52778	14	24°275	20°550	52850	31	21°353	25°998	52943	14	19°020	2°568	53015	12	17°282	6°701
52707	10	20°934	15°192	52779	12	15°090	20°866	52851	10	22°646	25°818	52944	12	19°436	2°820	53016	21	19°098	6°956
52708	35	20°996	15°349	52780	10	15°236	20°858	52852	19	23°602	25°352	52945	10	19°689	2°815	53017	54	20°912	6°578
52709	25	23°315	15°766	52781	34	17°730	20°325	52853	34	24°538	25°204	52946	10	23°340	2°180	53018	16	24°108	6°784
52710	35	23°786	15°710	52782	40	17°920	20°210	52854	12	25°128	25°678	52947	16	23°481	2°158	53019	23	24°266	6°462
52711	22	25°350	15°231	52783	10	21°658	20°800	52855	11	25°856	25°412	52948	30	25°148	2°095	53020	13	0°812	7°313
52712	47	0°322	16°444	52784	19	2°281	21°928					52949	15	0°786	3°109	53021	18	1°044	7°537
52713	22	0°672	16°953	52785	10	2°458	21°354					52950	12	1°108	3°252	53022	19	1°108	7°429
52714	10	1°436	16°408	52786	19	6°852	21°356					52951	17	2°738	3°191	53023	10	1°490	7°249
52715	16	3°646	16°000	52787	36	8°451	21°288					52952	17	3°332	3°208	53024	16	1°833	7°166
52716	22	8°273	16°590	52788	11	11°681	21°922					52953	28	3°631	3°622	53025	14	5°674	7°620
52717	18	8°386	16°602	52789	19	12°486	21°146					52954	10	3°897	3°741	53026	13	6°118	7°186
52718	28	15°426	16°624	52790	14	14°512	21°187					52955	26	5°470	3°949	53027	12	6°957	7°230
52719	10	17°446	16°843	52791	28	17°214	21°372					52956	13	5°871	3°738	53028	15	7°681	7°972
52720	12	18°070	16°068	52792	35	21°095	21°282					52957	11	7°887	3°020	53029	12	8°280	7°292
52721	10	20°909	16°149	52793	32	22°604	21°320					52958	18	8°080	3°769	53030	14	9°038	7°376
52722	21	21°165	16°884	52794	100	23°478	21°710					52959	19	8°265	3°851	53031	12	9°385	7°952
52723	15	21°884	16°302	52795	26	24°906	21°422					52960	17	12°690	3°310	53032	20	9°892	7°690
52724	10	23°530	16°606	52796	16	25°496	21°606					52961	19	13°334	3°771	53033	15	10°152	7°016
52725	10	24°594	16°883	52797	33	25°848	21°800					52962	26	13°498	3°666	53034	19	12°368	7°650
52726	33	0°964	17°959	52798	10	0°386	22°236					52963	18	13°660	3°589	53035	52	13°323	7°577
52727	14	1°417	17°676	52799	35	1°324	22°976					52964	12	17°980	3°558	53036	42	15°432	7°760
52728	30	2°234	17°258	52800	14	6°766	22°902					52965	24	18°395	3°782	53037	13	16°867	7°982
52729	12	2°805	17°037	52801	17	9°095	22°458					52966	26	20°318	3°064	53038	11	18°278	7°988
52730	31	4°070	17°240	52802	27	10°316	22°591					52967	15	21°022	3°460	53039	12	18°428	7°410
52731	10	6°540	17°662	52803	23	14°249	22°312					52968	10	24°248	3°992	53040	12	20°162	7°543
52732	16	11°475	17°893	52804	17	16°696	22°587					52969	17	24°478	3°280	53041	25	21°060	7°872
52733	12	13°672	17°487	52805	10	17°314	22°567					52970	15	1°483	4°201	53042	15	23°034	7°579
52734	12	13°813	17°409	52806	22	22°114	22°539					52971	59	3°441	4°102	53043	22	23°650	7°246
52735	30	14°455	17°724	52807	24	23°718	22°430					52972	16	3°620	4°848	53044	24	24°837	7°542
52736	43	15°081	17°292	52808	21	24°681	22°956					52973	19	5°697	4°430	53045	16	4°012	8°419
52737	21	16°896	17°707	52809	22	0°817	23°068					52974	10	6°573	4°435	53046	11	4°070	8°258
52738	17	17°390	17°520	52810	14	1°552	23°824					52975	10	7°687	4°190	53047	15	4°166	8°652
52739	10	21°172	17°900	52811	12	3°718	23°942					52976	25	8°725	4°238	53048	32	8°852	8°793
52740	20	24°754	17°724	52812	22	6°785	23°564					52977	17	8°932	4°764	53049	18	9°373	8°910
52741	15	0°224	18°594	52813	12	9°708	23°546					52978	51	9°367	4°124	53050	35	14°236	8°138
52742	30	2°616	18°946	52814	33	17°474	23°227					52979	13	13°996	4°620	53051	18	20°638	8°228
52743	26	3°420	18°347	52815	31	18°635	23°117					52980	27	14°090	4°134	53052	15	20°884	8°370
52744	17	4°002	18°771	52816	30	18°674	23°033					52981	19	17°762	4°065	53053	14	23°670	8°298
52745	10	5°615	18°188	52817	10	19°902	23°098					52982	12	18°099	4°927	53054	20	25°252	8°170
52746	42	7°345	18°194	52818	12	22°830	23°660					52983	16	18°306	4°060	53055	19	0°734	9°397
52747	34	8°685	18°358	52819	10	3°038	24°092					52984	27	21°221	4°615	53056	45	2°180	9°730
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Plate 1651; 1920 Apr. 19.

Provisional Constants.

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D E F  
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54935*	40	18-470	23-106					55064	12	14-890	5-484	55136*	60	20-852	12-370	55208	42	0-683	23-904
54936	20	18-504	23-532					55065	33	16-474	5-334	55137	10	6-698	13-149	55209	19	1-195	23-966
54937*	46	19-354	23-147					55066	26	17-754	5-024	55138	19	6-974	13-396	55210	10	2-398	23-358
54938	10	20-036	23-132					55067*	52	22-273	5-928	55139	14	8-914	13-142	55211*	45	2-910	23-115
54939	14	20-276	23-204					55068	11	0-332	6-312	55140*	31	18-064	13-943	55212	13	4-918	23-606
54940	29	20-396	23-650					55069	32	3-832	6-570	55141	24	19-693	13-690	55213	17	9-868	23-372
54941	27	20-544	23-271					55070	39	3-874	6-728	55142	26	21-246	13-415	55214	27	2-716	24-086
54942	11	20-651	23-541					55071	21	4-660	6-509	55143	15	22-458	13-710	55215	49	3-025	24-774
54943	40	22-474	23-700					55072	29	10-541	6-238	55144	22	0-938	14-976	55216	82	3-422	24-660
54944	25	22-984	23-765					55073	24	11-017	6-282	55145	30	2-014	14-250	55217	28	3-838	24-048
54945	13	24-192	23-172					55074	18	11-575	6-668	55146	36	2-283	14-488	55218	24	4-838	24-906
54946	29	24-506	23-908					55075	10	12-068	6-202	55147	19	2-550	14-390	55219	11	7-285	24-542
54947	28	25-628	23-880					55076	39	14-224	6-709	55148	31	3-726	14-126	55220	20	0-175	25-688
54948	14	0-728	24-194					55077	11	15-288	6-150	55149*	44	6-846	14-744	55221	54	0-659	25-480
54949	34	1-616	24-443					55078	10	16-988	6-789	55150	20	8-528	14-538	55222	19	0-912	25-792
54950	30	5-668	24-631					55079	10	19-954	6-909	55151	20	20-362	14-654	55223	37	4-707	25-084
54951	35	6-122	24-498					55080	33	22-910	6-204	55152	27	22-789	14-152	55224	13	5-112	25-076
54952	22	6-958	24-117					55081	14	23-334	6-576	55153*	44	1-210	15-486	55225	38	6-730	25-834
54953	45	7-946	24-172					55082	12	2-798	7-816	55154	22	2-243	15-452	55226	21	13-085	25-905
54954	14	9-040	24-606					55083	41	3-726	7-293	55155	20	6-342	15-211	55227	18	15-986	25-438
54955	17	9-972	24-656					55084	11	6-227	7-448	55156	44	7-880	15-725	55228	21	17-698	25-092
54956	31	11-922</																	



R.A. 16 <sup>h</sup> 24 <sup>m</sup>				R.A. 16 <sup>h</sup> 40 <sup>m</sup>			
Plate 1793; 1921 Mar. 6.				Plate 1796; 1921 Mar. 21.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-01754	+00772	-01959		-01760	+00861	-2201	
D	E	F		D	E	F	
-00769	-01752	-0780		-00886	-01771	-1687	
Mag. = 15.6 - 0.94√d				Mag. = 15.9 - 0.94√d			
No.	d	x	y	No.	d	x	y
55251	11	3.352	0.864	55551	11	2.527	0.046
55252	13	4.580	0.232	55552	34	19.170	0.510
55253	26	10.966	0.020	55553	18	25.095	0.495
55254	21	14.942	0.050	55554	32	1.185	1.933
55255	22	7.542	1.271	55555	14	5.006	1.301
55256	13	8.766	1.091	55556	54	4.580	2.590
55257	21	9.497	1.176	55557	14	17.140	2.712
55258	12	14.186	1.231	55558	11	18.634	2.719
55259	22	15.344	1.858	55559	30	5.267	3.798
55260	10	1.768	2.405	55560	41	18.874	3.451
55261	10	12.488	2.602	55561	10	19.680	3.512
55262	18	15.770	2.980	55562	41	20.984	3.030
55263	18	19.258	2.508	55563	17	23.628	3.999
55264	17	21.970	2.679	55564	20	23.882	3.797
55265	46	22.588	2.450	55565	23	24.966	3.688
55266	14	10.284	3.804	55566	11	6.959	4.747
55267	39	12.190	3.485	55567	36	18.672	4.746
55268	10	13.898	3.478	55568	8	20.198	4.742
55269	23	14.622	3.487	55569	20	23.936	4.383
55270	33	14.666	3.552	55570	11	20.506	5.654
55271	145	18.684	3.743	55571	12	20.706	5.962
55272	13	20.472	3.162	55572	9	22.392	5.471
55273	10	24.724	3.938	55573	12	23.436	5.084
55274	20	1.098	4.512	55574	30	4.828	6.670
55275	19	4.040	4.818	55575	26	12.197	6.712
55276	54	10.992	4.920	55576	9	15.202	6.410
55277	24	12.591	4.723	55577	12	1.155	7.254
55278	19	13.615	4.175	55578	37	4.594	7.644
55279	19	14.967	4.437	55579	18	15.797	7.586
55280	36	17.883	4.494	55580	40	16.550	7.706
55281	20	6.238	5.660	55581	10	23.664	7.650
55282	21	12.417	5.974	55582	27	24.934	7.170
55283	20	13.387	5.725	55583	17	14.688	8.744
55284	13	17.366	5.709	55584	8	18.915	8.749
55285	12	24.190	5.314	55585	52	22.546	8.629
55286	44	0.222	6.351	55586	14	0.762	9.174
55287	25	0.864	6.625	55587	13	8.435	9.686
55288	30	4.350	6.384	55588	53	19.858	9.659
55289	22	6.214	6.496	55589	17	19.955	9.137
55290	23	12.529	6.299	55590	39	23.790	9.954
55291	15	13.850	6.842	55591	12	10.578	10.872
55292	28	14.244	6.976	55592	19	12.122	10.738
55293	21	16.016	6.496	55593	22	12.284	10.787
55294	15	25.682	6.159	55594	17	18.430	10.087
55295	35	3.220	7.593	55595	13	6.082	11.718
55296	23	8.244	7.392	55596	30	12.875	11.770
55297	25	9.204	7.265	55597	20	13.648	11.286
55298	25	9.552	7.834	55598	15	14.146	11.151
55299	16	12.602	7.080	55599	18	16.472	11.562
55300	22	16.614	7.924	55600	11	17.216	11.548
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55303	14	7.199	8.439	55603	32	19.026	11.768
55304	17	12.300	8.472	55604	10	24.482	11.228
55305	23	12.500	8.016	55605	11	3.714	12.824

55606	27	6-852	12-732	55678	14	22-778	17-727	55750	10	2-042	24-855	55832	13	14-949	2-058	55904	46	17-057	7-294
55607	12	15-047	12-768	55679	12	23-792	17-288	55751	35	4-440	24-788	55833	19	16-440	2-555	55905	20	17-227	7-166
55608	29	16-722	12-054	55680	18	23-881	17-599	55752	9	4-446	24-466	55834	14	5-209	3-386	55906	34	17-245	7-298
55609	49	16-814	12-391	55681	40	24-625	17-911	55753*	28	9-966	24-427	55835	15	5-396	3-980	55907	20	18-692	7-814
55610	23	17-074	12-900	55682	19	24-960	17-018	55754	82	10-398	24-286	55836	15	6-734	3-889	55908	14	1-965	8-096
55611	32	18-167	12-258	55683	16	25-910	17-793	55755	14	12-678	24-473	55837	31	7-052	3-196	55909	13	3-900	8-024
55612	21	18-465	12-757	55684	28	2-300	18-049	55756	13	15-274	24-196	55838	14	7-374	3-309	55910	15	5-148	8-678
55613	17	18-996	12-550	55685	43	2-493	18-627	55757	31	16-897	24-400	55839	19	7-470	3-488	55911	26	5-582	8-577
55614	10	20-087	12-044	55686	21	10-944	18-547	55758	21	23-757	24-458	55840	15	7-658	3-440	55912	10	6-456	8-560
55615	12	21-898	12-128	55687	36	16-817	18-328	55759	31	2-506	25-430	55841	13	10-043	3-679	55913	14	6-470	8-966
55616	19	22-140	12-410	55688	30	16-961	18-748	55760	17	3-152	25-534	55842	22	10-090	3-144	55914	29	6-712	8-548
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55618	8	3-529	13-420	55690	25	21-390	18-740	55762	10	7-657	25-503	55844	15	14-732	3-766	55916	24	7-736	8-170
55619	38	4-438	13-008	55691*	53	21-435	18-752	55763	16	10-042	25-570	55845	26	14-892	3-182	55917	16	7-792	8-560
55620	11	5-320	13-572	55692	11	25-772	18-884	55764	18	11-173	25-466	55846	31	19-192	3-286	55918	18	9-190	8-790
55621	19	5-793	13-733	55693	19	2-090	19-851	55765	21	15-714	25-530	55847	11	22-354	3-674	55919	20	15-759	8-526
55622	29	7-607	13-789	55694	18	3-630	19-068	55766	40	23-100	25-008	55848	44	23-818	3-508	55920	18	16-814	8-900
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55625	14	17-078	13-582	55697	15	8-740	19-734					55851	12	25-944	3-002	55923	46	20-800	8-088
55626	22	18-542	13-201	55698	14	14-952	19-668					55852	14	25-948	3-042	55924*	58	23-076	8-080
55627	18	19-296	13-450	55699	13	15-150	19-252					55853	14	1-670	4-726	55925	15	24-657	8-820
55628	20	21-374	13-680	55700	29	18-906	19-126					55854	24	1-860	4-444	55926	31	25-970	8-030
55629	20	2-144	14-809	55701	14	19-392	19-703					55855	28	2-111	4-238	55927*	58	0-860	9-030
55630	40	4-992	14-400	55702	16	21-177	19-968					55856	29	2-176	4-825	55928	12	6-790	9-975
55631	12	5-883	14-721	55703*	42	21-943	19-178					55857	31	3-192	4-108	55929	29	7-415	9-966
55632	19	12-608	14-376	55704	12	0-194	20-032					55858	17	6-254	4-469	55930	13	8-594	9-360
55633	18	13-238	14-291	55705	27	0-914	20-124					55859	28	7-020	4-444	55931	27	8-774	9-886
55634*	42	13-964	14-070	55706	18	5-542	20-729					55860	27	7-393	4-686	55932	12	9-496	9-418
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55638	19	3-330	15-308	55710	10	10-400	20-610					55864	16	24-210	4-410	55936*	81	14-698	9-322
55639	14	5-135	15-990	55711	11	12-830	20-537					55865	14	1-690	5-535	55937	14	17-376	9-230
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55646	34	18-280	15-750	55718	17	3-242	21-520					55872	11	13-693	5-280	55944	25	25-548	9-232
55647	10	18-340	15-933	55719	23	4-978	21-376					55873	33	16-857	5-360	55945*	41	2-130	10-400
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55653	25	3-448	16-778	55725	19	24-168	21-161					55879	11	19-764	5-484	55951	22	18-558	10-910
55654	22	4-300	16-982	55726	29	25-734	21-776					55880	22	22-750	5-443	55952	31	18-780	10-450
55655	19	5-048	16-953	55727	35	1-668	22-825					55881	13	22-844	5-140	55953	18	20-600	10-684
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55658	32	9-417	16-659	55730	29	5-740	22-672					55884	14	6-837	6-457	55956	23	25-502	10-156
55659	30	10-405	16-542	55731	21	5-948	22-492					55885	20	10-240	6-220	55957	18	2-849	11-660
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55662	23	15-798	16-292	55734	11	21-456	22-099					55888	29	15-678	6-310	55960	20	6-630	11-394
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55976	29	8-560	12-556	56048	19	16-282	17-430	56120	14	5-870	22-012	56206	15	18-645	0-009	56278	20	0-280	9-588
55977	12	9-854	12-148	56049	13	19-104	17-436	56121	29	13-510	22-813	56207	14	20-590	0-032	56279	14	3-386	9-319
55978	24	11-286	12-478	56050	11	19-700	17-320	56122	16	14-540	22-580	56208	27	21-483	0-960	56280	24	11-674	9-945
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55982	14	22-100	12-657	56054	22	25-176	17-219	56126	37	1-327	23-826	56212	14	4-437	1-952	56284	23	23-616	9-907
55983	15	22-394	12-088	56055	11	25-880	17-750	56127	18	2-510	23-968	56213	24	5-310	1-504	56285	10	23-900	9-612
55984	29	22-480	12-961	56056	24	2-367	18-040	56128	38	3-276	23-346	56214	27	10-327	1-310	56286	18	24-000	9-148
55985	26	22-493	12-969	56057	37	3-116	18-340	56129	26	8-120	23-142	56215	15	10-895	1-259	56287	17	24-681	9-786
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55987	13	25-294	12-686	56059	24	4-399	18-200	56131	11	14-957	23-096	56217	10	12-843	1-385	56289	26	0-336	10-830
55988	30	25-300	12-381	56060	27	4-512	18-020	56132	28	19-262	23-610	56218*	33	14-092	1-520	56290	12	3-350	10-242
55989	37	25-363	12-137	56061	26	5-322	18-151	56133	26	19-915	23-642	56219	15	17-040	1-595	56291	17	5-234	10-217
55990	27	25-488	12-250	56062	16	8-232	18-750	56134	11	20-394	23-008	56220	21	21-316	1-015	56292	21	6-000	10-536
55991	15	25-902	12-680	56063	11	10-864	18-978	56135	12	20-786	23-941	56221	14	23-736	1-986	56293	25	13-894	10-864
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				56810	23	11-894	4-044	56882	10	4-077	11-448	56954	25	9-772	19-618	57026	11	1-287	24-954
				56811	32	14-799	4-422	56883	37	5-506	11-810	56955	18	13-477	19-610	57027	20	1-346	24-929
				56812	32	16-030	4-038	56884	44	5-585	11-516	56956	64	16-268	19-270	57028	18	1-349	24-221
				56813	27	19-626	4-784	56885	14	7-724	11-030	56957	37	19-084	19-216	57029	49	1-992	24-978
				56814	13	20-244	4-460	56886	13	8-435	11-980	56958	16	22-512	19-006	57030	24	2-560	24-762
				56815	18	22-099	4-990	56887	39	10-507	11-544	56959	68	24-162	19-792	57031	13	3-166	24-222
				56816	32	24-926	4-431	56888	12	12-404	11-738	56960	26	0-734	20-916	57032	16	4-472	24-391
				56817	29	25-888	4-496	56889	38	15-514	11-439	56961	18	8-964	20-246	57033	20	4-675	24-450
				56818	35	0-000	5-402	56890	21	19-656	11-598	56962	23	10-599	20-961	57034	29	0-190	24-943
				56819	21	1-009	5-898	56891	20	0-966	12-810	56963	19	11-398	20-118	57035	12	11-150	24-080
				56820	11	2-732	5-366	56892	20	6-854	12-310	56964	16	13-604	20-059	57036	35	11-290	24-450
				56821	21	3-802	5-559	56893	49	9-202	12-954	56965	20	14-898	20-756	57037	18	11-950	24-648
				56822	12	5-622	5-850	56894	14	13-804	12-207	56966	20	16-125	20-144	57038	32	13-748	24-630
				56823	30	12-258	5-712	56895	38	17-224	12-745	56967	14	16-644	20-084	57039	17	16-785	24-001
				56824	10	13-740	5-418	56896	22	17-984	12-146	56968	12	18-794	20-977	57040	18	18-126	24-850
				56825	17	14-980	5-240	56897	25	19-474	12-488	56969	23	19-182	20-930	57041	19	20-256	24-162
				56826	47	19-169	5-402	56898	20	20-474	12-701	56970	11	21-894	20-800	57042	49	22-129	24-678
				56827	18	22-075	5-468	56899	14	0-192	13-367	56971	10	22-758	20-122	57043	14	23-794	24-864
				56828	42	23-018	5-710	56900	19	2-540	13-538	56972	15	24-130	20-374	57044	46	1-288	25-526
				56829	19	1-754	6-459	56901	12	3-496	13-038	56973	19	24-651	20-105	57045	33	1-696	25-360
				56830	18	8-546	6-912	56902	12	4-140	13-897	56974	20	24-855	20-132	57046	13	2-018	25-712
				56831	12	12-492	6-924	56903	26	6-242	13-432	56975	10	0-809	21-403	57047	10	3-150	25-982
				56832	10	14-140	6-962	56904	13	7-282	13-108	56976	25	1-462	21-884	57048	26	3-522	25-566
				56833	50	15-537	6-087	56905	20	13-604	13-330	56977	32	1-960	21-308	57049	38	3-578	25-552
				56834	30	20-243	6-122	56906	17	13-926	13-976	56978	25	2-306	21-290	57050	31	3-367	25-974
				56835	31	21-892	6-572	56907	30	14-745	13-940	56979	10	4-570	21-461	57051	32	6-610	25-135
				56836	21	0-054	7-318	56908	35	17-221	13-827	56980	26	6-275	21-115	57052	12	8-518	25-346
				56837	16	0-793	7-022	56909	18	18-449	13-164	56981	27	8-174	21-346	57053	23	10-012	25-236
				56838	19	8-409	7-028	56910	45	21-250	13-730	56982	11	12-574	21-928	57054	26	13-480	25-379
				56839	42	9-420	7-982	56911	12	2-552	14-412	56983	19	18-234	21-206	57055	19	16-034	25-864
				56840	17	10-309	7-592	56912	10	7-829	14-862	56984	32	18-310	21-025	57056	18	19-191	25-531
				56841	10	10-538	7-526	56913	11	9-210	14-356	56985	11	21-005	21-570	57057	17	19-562	25-122
				56842	11	12-031	7-627	56914	23	5-430	15-892	56986	21	22-002	21-200	57058	20	25-114	25-949
				56843	29	12-084	7-152	56915	16	13-540	15-610	56987	30	22-145	21-889				
				56844	19	12-373	7-428	56916	46	2-543	16-953	56988	62	23-364	21-856				
				56845	12	12-556	7-683	56917	19	3-372	16-175	56989	47	23-626	21-246				
				56846	20	15-358	7-138	56918	24	6-204	16-140	56990	12	25-702	21-056				
				56847	26	15-517	7-772	56919	53	11-048	16-456	56991	19	0-330	22-058				
				56848	13	17-778	7-674	56920	11	17-534	16-779	56992	39	1-871	22-478				
				56849	18	19-110	7-757	56921	23	19-950	16-418	56993	20	5-630	22-708				
				56850	25	22-101	7-022	56922	18	22-390	16-372	56994	14	5-956	22-880				
				56851	12	5-040	8-095	56923	10	25-620	16-850	56995	17	6-414	22-926				
				56852	26	7-049	8-380	56924	14	0-614	17-866	56996	38	7-368	22-266				
				56853	17	8-818	8-628	56925	39	1-190	17-996	56997	17	7-612	22-669				
				56854	23	10-038	8-916	56926	62	3-133	17-806	56998	23	12-168	22-406				
				56855	13	11-248	8-176	56927	18	13-862	17-708	56999	30	14-812	22-923				
				56856	19	11-780	8-399	56928	21	16-122	17-148	57000	44	15-019	22-256				
				56857	25	13-172	8-691	56929	15	17-642	17-764	57001	15	16-250	22-590				
				56858	13	13-702	8-279	56930	29	18-088	17-698	57002	12	17-079	22-946				
				56859	40	22-658	8-412	56931	30	19-208	17-066	57003	54	17-900	22-612				
				56860	22	22-860	8-768	56932	40	19-362	17-682	57004	10	18-409	22-358				
				56861	14	25-739	8-208	56933	11	23-045	17-238	57005	35	18-736	22-208				
				56862	11	25-839	8-930	56934	13	24-022	17-532	57006	12	18-974	22-278				
				56863	10	6-210	9-849	56935	1										



R.A. 17 <sup>h</sup> 20 <sup>m</sup>				R.A. 17 <sup>h</sup> 28 <sup>m</sup>			
Plate 1820; 1921 Sept. 29.				Plate 1653; 1920 Apr. 19.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-01744	+01513	-7039		-01735	+01350	-1672	
D	E	F		D	E	F	
-01454	-01740	+0365		-01365	-01752	-2656	
Mag. = 16.1 - 0.94√d				Mag. = 16.6 - 0.94√d			
No.	d	x	y	No.	d	x	y
57101	26	0.330	0.296	57351	13	4.551	0.640
57102	21	1.040	0.621	57352	25	5.005	0.930
57103	29	3.440	0.444	57353	29	8.534	0.594
57104	28	5.520	0.408	57354	25	13.524	0.098
57105	34	7.108	0.958	57355	13	13.590	0.387
57106	18	8.232	0.030	57356	17	13.620	0.721
57107	22	12.182	0.774	57357	39	14.552	0.475
57108	10	0.580	1.200	57358	46	14.709	0.340
57109*	42	2.340	1.532	57359	45	17.301	0.793
57110*	39	10.989	1.890	57360	27	18.500	0.400
57111	51	11.886	1.353	57361	11	22.254	0.306
57112	10	12.544	1.176	57362	14	22.370	0.444
57113	27	22.051	1.460	57363*	57	22.764	0.183
57114	13	0.799	2.304	57364	29	23.894	0.744
57115	36	14.562	2.002	57365	23	0.567	1.489
57116	30	17.157	2.592	57366	27	11.036	1.860
57117*	43	21.180	2.668	57367*	50	12.658	1.965
57118*	58	1.336	3.334	57368	45	13.704	1.110
57119	32	1.896	3.134	57369	25	13.750	1.880
57120	13	2.036	3.602	57370	27	14.896	1.059
57121	16	2.224	3.074	57371	23	15.156	1.175
57122	11	3.286	3.341	57372	28	16.019	1.729
57123	16	4.175	3.826	57373	13	16.694	1.728
57124	30	17.374	3.597	57374	14	18.442	1.876
57125	22	18.446	3.458	57375	16	18.710	1.060
57126	14	19.905	3.505	57376	10	21.082	1.424
57127	12	24.522	3.274	57377	48	21.600	1.194
57128	10	25.280	3.545	57378	30	22.098	1.918
57129	24	25.778	3.668	57379	14	22.189	1.571
57130	10	3.106	4.208	57380	44	22.490	1.761
57131	13	3.154	4.448	57381	29	22.730	1.300
57132	19	5.370	4.408	57382	13	23.850	1.216
57133	34	5.538	4.850	57383	33	25.184	1.726
57134*	42	12.086	4.698				
57135*	33	13.242	4.271				
57136	14	13.966	4.745				
57137*	43	14.199	4.660				
57138	17	15.724	4.366				
57139	10	17.546	4.484				
57140*	41	19.279	4.904				
57141	36	20.791	4.810				
57142	34	21.424	4.520				
57143	12	23.253	4.814				
57144	33	1.414	5.145				
57145	28	2.374	5.190				
57146	11	3.544	5.834				
57147	10	3.766	5.740				
57148	10	4.076	5.336				
57149*	87	6.639	5.001				
57150	33	14.050	5.036				
57151*	54	14.148	5.312				
57152	23	16.065	5.086				
57153	20	18.232	5.694				
57154	14	19.238	5.194				
57155	10	23.964	5.470				



57456	28	5°790	6°997	57528	26	9°196	9°892	57600	30	15°980	12°890	57672	66	19°512	16°708	57744	17	15°196	21°772
57457	44	9°546	6°474	57529	60	10°031	9°482	57601	31	16°308	12°020	57673	22	19°566	16°520	57745	20	15°288	21°355
57458	13	9°831	6°508	57530	48	13°648	9°612	57602	18	17°530	12°720	57674	16	19°600	16°215	57746	24	19°212	21°084
57459	16	11°215	6°825	57531	13	14°096	9°480	57603	18	19°756	12°814	57675	27	22°810	16°596	57747	24	19°277	21°430
57460	13	12°220	6°730	57532	31	14°578	9°960	57604	14	20°386	12°100	57676	22	24°588	16°700	57748	46	21°112	21°040
57461	17	12°314	6°840	57533	28	14°884	9°910	57605	10	21°482	13°058	57677	16	4°730	17°350	57749	22	24°392	21°578
57462	17	13°094	6°670	57534	37	15°790	9°962	57606	45	22°154	12°438	57678	19	4°963	17°630	57750	17	24°974	21°400
57463	14	13°764	6°584	57535	22	17°042	9°174	57607	18	22°589	12°340	57679	40	9°491	17°524	57751	25	24°998	21°090
57464	29	14°230	6°380	57536	27	17°408	9°400	57608	39	24°034	12°482	57680	31	9°600	17°152	57752	45	1°258	22°950
57465	17	15°503	6°704	57537	16	17°468	9°705	57609	19	24°298	12°707	57681	14	10°354	17°597	57753	56	2°185	22°798
57466	15	17°290	6°506	57538	17	19°073	9°704	57610	25	14°36	13°541	57682	14	10°943	17°512	57754	18	2°023	22°700
57467	10	18°125	6°661	57539	14	20°485	9°778	57611	19	15°61	13°810	57683	28	13°773	17°929	57755	13	3°744	22°181
57468	17	18°142	6°371	57540	37	21°000	9°163	57612	28	3°538	13°787	57684	26	15°440	17°812	57756	11	4°830	22°686
57469	14	18°800	6°567	57541	20	21°227	9°720	57613	13	6°892	13°624	57685	12	15°999	17°234	57757	14	11°964	22°366
57470	31	20°344	6°640	57542	13	22°668	9°910	57614	22	7°320	13°380	57686	14	17°617	17°310	57758	32	13°078	22°428
57471	21	20°642	6°759	57543	33	22°721	9°110	57615	15	7°539	13°926	57687	16	17°902	17°854	57759	24	16°069	22°342
57472	40	20°781	6°120	57544	33	22°960	9°294	57616	15	8°254	13°108	57688	13	18°110	17°870	57760	39	17°364	22°544
57473	31	20°970	6°530	57545	16	23°791	9°560	57617	27	11°040	13°810	57689	14	18°182	17°600	57761	36	18°013	22°710
57474	55	21°856	6°076	57546	16	0°098	10°376	57618	13	11°523	13°726	57690	67	18°293	17°995	57762	21	18°937	22°507
57475	11	21°914	6°350	57547	16	3°587	10°135	57619	57	11°580	13°540	57691	27	18°110	17°295	57763	27	20°870	22°507
57476	11	22°213	6°646	57548	26	4°164	10°530	57620	15	13°083	13°500	57692	43	25°811	17°844	57764	13	25°386	22°591
57477	22	22°444	6°562	57549	27	5°408	10°390	57621	12	13°510	13°222	57693	11	25°844	17°405	57765	13	25°669	22°000
57478	53	24°061	6°524	57550	29	5°962	10°120	57622	12	13°708	13°525	57694	28	1°650	18°936	57766	43	3°462	23°860
57479	13	25°168	6°381	57551	22	6°722	10°908	57623	10	14°862	13°404	57695	17	11°580	18°930	57767	29	5°093	23°808
57480	15	25°566	6°899	57552	11	7°298	10°870	57624	11	15°245	13°412	57696	26	12°680	18°148	57768	55	7°187	23°395
57481	10	6°310	7°386	57553	16	7°592	10°053	57625	42	16°250	13°460	57697	15	13°344	18°938	57769	27	8°332	23°320
57482	30	7°608	7°564	57554	62	9°061	10°458	57626	33	21°488	13°776	57698	19	14°461	18°184	57770	36	11°880	23°311
57483	24	9°915	7°167	57555	17	9°810	10°030	57627	30	2°677	14°150	57699	21	14°886	18°010	57771	52	12°096	23°050
57484	15	9°974	7°830	57556	11	13°586	10°478	57628	46	5°620	14°810	57700	30	15°626	18°054	57772	80	12°874	23°661
57485	11	11°791	7°264	57557	20	13°665	10°136	57629	20	8°040	14°718	57701	12	16°100	18°858	57773	20	12°880	23°610
57486	17	12°307	7°169	57558	18	14°244	10°504	57630	28	10°594	14°857	57702	12	16°256	18°220	57774	28	18°619	23°444
57487	13	15°116	7°300	57559	42	10°162	10°188	57631	17	10°700	14°192	57703	42	16°964	18°170	57775	19	24°860	23°874
57488	28	15°768	7°288	57560	44	10°184	10°354	57632	12	12°262	14°088	57704	11	18°294	18°411	57776	27	2°668	24°522
57489	29	16°064	7°970	57561	35	10°400	10°714	57633	59	13°300	14°132	57705	12	18°710	18°404	57777	33	2°987	24°592
57490	16	17°446	7°428	57562	36	10°530	10°714	57634	29	15°703	14°560	57706	18	20°559	18°190	57778	26	6°502	24°389
57491	17	17°630	7°090	57563	12	18°640	10°934	57635	16	17°017	14°626	57707	14	20°580	18°720	57779	50	6°730	24°374
57492	19	17°826	7°934	57564	17	23°135	10°666	57636	27	17°208	14°467	57708	67	23°812	18°378	57780	20	9°268	24°350
57493	20	18°278	7°340	57565	29	23°768	10°670	57637	14	18°510	14°680	57709	14	23°912	18°960	57781	49	12°614	24°160
57494	11	18°385	7°200	57566	10	25°046	10°408	57638	30	18°868	14°716	57710	28	24°100	18°770	57782	15	17°642	24°060
57495	21	19°160	7°530	57567	30	25°277	10°700	57639	33	19°754	14°260	57711	19	5°000	19°312	57783	13	21°344	24°131
57496	12	20°130	7°921	57568	91	25°724	10°490	57640	12	22°534	14°434	57712	12	9°108	19°650	57784	39	23°872	24°754
57497	23	20°706	8°009	57569	22	2°520	11°478	57641	14	22°616	14°980	57713	15	10°870	19°117	57785	13	24°080	24°120
57498	10	22°744	7°698	57570	36	3°440	11°022	57642	28	22°900	14°781	57714	55	11°530	19°105	57786	28	25°766	24°866
57499	10	22°916	7°844	57571	12	3°850	11°611	57643	12	3°536	15°000	57715	11	13°110	19°022	57787	20	3°488	24°909
57500	33	24°666	7°838	57572	25	4°070	11°746	57644	4	4°888	15°862	57716	14	13°738	19°296	57788	60	4°770	25°420
57501	42	25°949	7°468	57573	10	5°030	11°109	57645	28	5°162	15°802	57717	68	14°312	19°942	57789	11	5°340	25°037
57502	22	1°997	8°040	57574	30	5°190	11°800	57646	18	6°120	15°806	57718	24	16°034	19°962	57790	40	8°036	25°282
57503	28	5°166	8°514	57575	10	7°674	11°586	57647	16	8°505	15°000	57719	23	19°245	19°944	57791	13	8°262	25°916
57504	28	5°711	8°604	57576	16	9°446	11°380	57648	26	10°170	15°760	57720	24	20°500	19°260	57792	34	12°460	25°284
57505	14	7°213	8°528	57577	16	12°960	11°968	57649	10	10°521	15°955	57721	37	21°066	19°231	57793	20	17°158	25°350
57506	14	9°968	8°376	57578	26	13°044	11°282	57650	11	13°500	15°687	57722	33	22°890	19°340	57794	34	19°126	25°788
57507	53	10°430	8°707	57579	10	14°654	11°870	57651	25	14°495	15°070	57723	30	23°268	19°728	57795	56	24°534	25°766
57508	11	11°720	8°125	57580	18	14°836	11°700	57652	42	14°584	15°066	57724	14	24°768	19°594				
57509	28	12°368	8°385	57581	17	16°182	11°818	57653	41	16°028	15°232	57725	29	25°640	19°393				
57510	15	15°240	8°056	57582	24	16°484	11°977	57654	17	17°139	15°190	57726	19	13°380	20°800				
57511	25	15°030	8°755	57583	33	17°022	11°535	57655	11	18°980	15°160	57727	15	14°088	20°608				
57512	12	15°923	8°548	57584	14	17°080	11°754	57656	34	19°444	15°096	57728	16	15°823	20°002				
57513	21	16°561	8°724	57585	30	18°760	11°573	57657	18	24°920	15°492	57729	19	17°030	20°915				
57514	38	17°688	8°716	57586	43	19°260	11°666	57658	24	25°050	15°922	57730	37	19°348	20°608				
57515	39	18°213	8°054	57587	22	23°091	11°560	57659	45	0°954	16°491	57731	27	19°481	20°846				
57516	27	18°800	8°534	57588	24	23°466	11°482	57660	40	3°164	16°500	57732	17	20°254	20°623				
57517	30	18°874	8°680	57589	24	23°707	11°679	57661	37	4°700	16°320	57733	17	21°305	20°944				
57518	27	20°752	8°300	57590	16	24°182	11°028	57662	22	7°256	16°967	57734	12	21°691	20°786				
57519	28	21°034	8°294																

R.A. 17<sup>h</sup> 36<sup>m</sup>

Plate 1672; 1920 May 12.

Provisional Constants.

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-01760 +00974 -0650

D E F  
-00989 -01752 -2288

Mag. = 16.4 - 0.94√d

No.	d	x	y	57856	10	15.282	2.203	57928	30	25.690	4.188	58000	10	22.094	7.189	58072	21	1.890	12.012
57857	20	15.320	2.517	57929	30	0.848	5.828	58001	57	24.262	7.114	58073	41	2.224	12.813				
57858	35	15.476	2.309	57930	12	0.908	5.638	58002	33	0.011	8.352	58074	29	5.090	12.954				
57859	11	17.330	2.730	57931	22	1.288	5.788	58003	10	1.732	8.508	58075	35	6.199	12.318				
57860	18	17.984	2.154	57932	10	1.818	5.786	58004	11	1.940	8.006	58076	28	9.174	12.934				
57861	19	19.654	2.705	57933	29	2.445	5.877	58005	34	2.812	8.162	58077	30	11.261	12.646				
57862	34	19.730	2.014	57934	39	3.905	5.032	58006	27	7.945	8.484	58078	11	12.054	12.630				
57863	23	22.330	2.656	57935	13	3.974	5.021	58007	15	8.845	8.722	58079	18	12.328	12.066				
57864	11	22.554	2.458	57936	13	4.887	5.576	58008	47	13.523	8.593	58080	25	12.553	12.662				
57865	39	23.160	2.200	57937	39	5.912	5.776	58009	15	13.904	8.291	58081	10	13.162	12.441				
57866	13	23.672	2.654	57938	29	6.012	5.687	58010	10	16.043	8.793	58082	10	15.250	12.328				
57867	21	25.196	2.474	57939	25	7.450	5.372	58011	168	16.723	8.081	58083	57	18.036	12.968				
57868	12	0.560	3.267	57940	11	10.299	5.840	58012	23	17.856	8.392	58084	17	18.091	12.173				
57869	65	0.973	3.088	57941	32	10.494	5.298	58013	29	18.180	8.759	58085	11	18.000	12.962				
57870	13	1.924	3.266	57942	15	11.808	5.336	58014	53	19.225	8.671	58086	32	19.060	12.022				
57871	10	3.376	3.392	57943	31	12.070	5.574	58015	15	19.805	8.048	58087	10	19.164	12.648				
57872	40	4.532	3.009	57944	14	15.496	5.810	58016	30	21.400	8.694	58088	70	20.142	12.125				
57873	20	6.072	3.947	57945	39	16.764	5.160	58017	50	21.578	8.424	58089	10	22.446	12.506				
57874	10	7.155	3.605	57946	15	18.214	5.346	58018	11	21.593	8.927	58090	19	24.91	13.033				
57875	12	7.504	3.401	57947	29	19.205	5.050	58019	10	21.642	8.484	58091	10	24.769	13.397				
57876	11	8.645	3.278	57948	60	19.230	5.458	58020	29	21.824	8.299	58092	22	27.806	13.494				
57877	14	9.770	3.724	57949	17	19.333	5.958	58021	13	22.655	8.208	58093	15	11.249	13.788				
57878	44	10.702	3.877	57950	17	19.730	5.023	58022	12	23.916	8.154	58094	10	11.958	13.292				
57879	12	11.261	3.909	57951	13	21.400	5.134	58023	27	24.280	8.958	58095	46	13.374	13.101				
57880	11	12.671	3.839	57952	12	22.930	5.912	58024	33	0.880	9.453	58096	14	15.129	13.250				
57881	12	12.832	3.026	57953	13	23.306	5.210	58025	32	1.121	9.632	58097	44	21.898	13.272				
57882	32	13.298	3.098	57954	39	24.414	5.874	58026	13	1.956	9.894	58098	16	23.004	13.997				
57883	38	13.581	3.576	57955	10	24.416	5.433	58027	22	2.041	9.134	58099	26	25.190	13.980				
57884	16	15.400	3.969	57956	10	0.048	6.698	58028	31	5.172	9.214	58100	13	25.932	13.133				
57885	10	16.766	3.400	57957	14	0.270	6.090	58029	35	7.240	9.054	58101	17	4.935	14.260				
57886	30	17.928	3.559	57958	12	0.350	6.990	58030	31	10.946	8.202	58102	27	8.966	14.956				
57887	19	19.122	3.798	57959	32	0.980	6.902	58031	12	11.754	9.532	58103	21	11.408	14.444				
57888	20	21.164	3.566	57960	42	1.893	6.050	58032	13	12.360	9.262	58104	10	17.844	14.748				
57889	10	23.562	3.752	57961	51	2.194	6.858	58033	17	16.114	9.939	58105	133	19.321	14.139				
57890	10	24.820	3.252	57962	37	2.891	6.200	58034	12	16.152	9.954	58106	10	19.601	14.772				
57891	62	24.926	3.281	57963	13	3.302	6.702	58035	20	16.812	9.663	58107	19	20.881	14.313				
57892	23	25.366	3.697	57964	25	3.372	6.174	58036	26	16.954	9.229	58108	14	21.466	14.649				
57893	10	25.516	3.374	57965	10	4.460	6.539	58037	14	18.798	9.120	58109	14	25.270	14.571				
57894	12	0.492	4.044	57966	10	8.530	6.392	58038	27	19.345	9.435	58110	52	25.800	14.428				
57895	10	0.682	4.577	57967	37	11.212	6.494	58039	23	23.076	9.770	58111	26	25.994	14.576				
57896	29	1.106	4.718	57968	15	11.614	6.389	58040	30	25.266	9.240	58112	12	0.756	15.112				
57897	12	1.114	4.576	57969	10	12.280	6.888	58041	14	25.459	9.930	58113	13	0.829	15.318				
57898	10	1.194	4.424	57970	10	12.382	6.383	58042	29	25.568	9.690	58114	28	1.115	15.122				
57899	12	1.708	4.518	57971	19	14.265	6.383	58043	10	0.773	10.250	58115	18	3.140	15.812				
57900	10	1.880	4.866	57972	30	15.206	6.831	58044	120	3.885	10.807	58116	19	5.764	15.276				
57901	11	2.256	4.218	57973	10	15.785	6.104	58045	29	5.225	10.440	58117	13	8.024	15.308				
57902	46	2.827	4.720	57974	12	16.826	6.370	58046	11	8.484	10.547	58118	33	8.090	15.202				
57903	13	3.090	4.940	57975	25	17.713	6.604	58047	15	9.694	10.254	58119	45	9.624	15.390				
57904	31	3.404	4.976	57976	33	19.980	6.982	58048	14	12.832	10.514	58120	15	10.075	15.098				
57905	33	3.468	4.168	57977	20	21.752	6.528	58049	10	13.182	10.403	58121	11	11.037	15.878				
57906	36	4.889	4.664	57978	10	24.172	6.623	58050	29	20.153	10.526	58122	58	12.675	15.506				
57907	10	5.292	4.974	57979	57	25.598	6.114	58051	14	20.675	10.569	58123	30	12.782	15.690				
57908	10	6.063	4.813	57980	38	25.616	6.050	58052	10	20.799	10.216	58124	25	16.240	15.478				
57909	15	6.083	4.368	57981	17	25.810	6.952	58053	10	24.832	10.717	58125	22	16.980	15.996				
57910	21	6.170	4.387	57982	15	25.834	6.748	58054	21	25.406	10.852	58126	50	18.502	15.184				
57911	33	7.836	4.236	57983	33	25.972	6.746	58055	19	1.274	11.900	58127	14	19.715	15.262				
57912	37	7.966	4.264	57984	10	0.407	7.684	58056	17	1.311	11.000	58128	30	23.402	15.341				
57913	13	10.706	4.958	57985	16	1.723	7.862	58057	22	1.648	11.818	58129	27	25.698	15.855				
57914	13	11.360	4.598	57986	11	3.704	7.214	58058	24	1.943	11.000	58130	28	1.070	16.936				
57915	31	12.204	4.498	57987	40	4.091	7.782	58059	14	2.360	11.356	58131	18	3.276	16.243				
57916	12	13.241	4.314	57988	29	4.545	7.984	58060	10	2.460	11.959	58132	14	4.510	16.819				
57917	12	16.046	4.425	57989	10	5.304	7.042	58061	18	3.125	11.720	58133	11	6.844	16.546				
57918	34	17.688	4.811	57990	31	6.620	7.544	58062	26	3.454	11.014	58134	10	7.764	16.270				
57919	11	19.094	4.658	57991	29	6.732	7.555	58063	28	6.634	11.870	58135	11	8.484	16.645				
57920	10	19.215	4.432	57992	30	8.555	7.102	58064	12	6.926	11.254	58136	10	8.608	16.800				
57921	24	20.210	4.962	57993	33	10.456	7.040	58065	13	11.056	11.944	58137	19	10.704	16.827				
57922	19	20.551	4.452	57994	14	10.694	7.219	58066	10	11.322	11.184	58138	63	14.616	16.169				
57923	10	20.954	4.416	57995	11	11.630	7.541	58067	72	11.444	11.169	58139	35	14.626	16.114				
57924	20	21.731	4.760	57996	24	18.590	7.323	58068	39	13.164	11.016	58140	14	15.948	16.123				
57925	14	24.365	4.272	57997	18	18.572	7.594	58069	16	19.039	11.856	58141	13	16.900	16.689				
57926	13	24.537	4.550	57998	13	20.377	7.366	58070	44	0.343	12.784	58142	15	19.578	16.166				
57927	10	25.170	4.820	57999	26	21.954	7.938	58071	14	0.780	12.681	58143	23	21.159	16.283				

58144	23	24°006	16°077	58216	52	18°044	20°822	58288	32	17°474	24°838	58375	12	22°790	0°621	58447	27	24°152	2°881
58145	21	24°460	16°061	58217	13	23°024	20°497	58289	40	18°108	24°186	58376	14	25°905	0°300	58448	13	25°725	2°470
58146	21	24°524	16°010	58218	49	24°300	20°048	58290	12	19°600	24°422	58377	33	0°399	1°403	58449	12	1°460	3°550
58147	11	25°015	16°297	58219	30	24°996	20°357	58291	10	20°921	24°139	58378	18	0°501	1°404	58450	57	2°820	3°560
58148	13	25°062	16°617	58220	18	25°024	20°640	58292	11	21°422	24°730	58379	28	0°621	1°908	58451	25	3°270	3°970
58149	20	25°161	17°026	58221	24	25°074	21°901	58293	14	23°157	24°237	58380	47	1°359	1°464	58452	19	3°416	3°643
58150	10	4°080	17°718	58222	16	3°246	21°360	58294	35	23°880	24°672	58381	12	3°500	1°734	58453	13	5°913	3°044
58151	23	6°186	17°501	58223	26	3°272	21°408	58295	12	25°316	24°262	58382	21	3°770	1°350	58454	11	7°390	3°290
58152	23	6°802	17°928	58224	25	7°146	21°474	58296	39	2°178	25°086	58383	13	4°773	1°340	58455	25	10°286	3°676
58153	35	7°574	17°982	58225	25	10°131	21°400	58297	12	3°166	25°790	58384	10	4°810	1°824	58456	10	10°874	3°940
58154	11	9°788	17°461	58226	22	11°832	21°358	58298	22	5°370	25°334	58385	22	5°221	1°450	58457	26	11°974	3°118
58155	46	16°646	17°884	58227	19	12°307	21°118	58299	10	5°734	25°192	58386	31	5°337	1°604	58458	38	13°701	3°130
58156	10	22°416	17°595	58228	16	12°620	21°220	58300	11	8°688	25°584	58387	19	5°376	1°613	58459	16	15°250	3°840
58157	40	23°157	17°046	58229	17	14°991	21°125	58301	10	10°610	25°183	58388	25	5°646	1°800	58460	34	15°521	3°461
58158	33	23°692	17°046	58230	16	10°390	21°598	58302	10	10°688	25°138	58389	45	5°702	1°428	58461	20	15°704	3°444
58159	13	23°906	17°452	58231	21	19°681	21°521	58303	10	14°156	25°338	58390	22	6°086	1°153	58462	19	16°245	3°358
58160	13	24°164	17°852	58232	12	21°826	21°130	58304	12	14°737	25°669	58391	29	6°698	1°514	58463	12	19°090	3°151
58161	10	25°156	17°783	58233	44	24°518	21°600	58305	32	15°496	25°730	58392	11	6°791	1°060	58464	14	19°604	3°457
58162	16	25°212	17°982	58234	11	25°069	21°042	58306	10	15°866	25°022	58393	19	6°794	1°247	58465	19	20°772	3°420
58163	19	25°214	17°740	58235	10	25°425	21°842	58307	17	16°585	25°507	58394	11	7°500	1°787	58466	18	22°464	3°618
58164	24	25°501	17°268	58236	35	25°682	21°449	58308	32	18°076	25°202	58395	10	8°652	1°092	58467	11	23°450	3°354
58165	80	2°052	18°710	58237	21	25°712	21°554	58309	13	18°854	25°010	58396	17	9°022	1°712	58468	13	23°944	3°516
58166	37	4°051	18°158	58238	28	25°838	21°586	58310	31	24°566	25°246	58397	26	9°420	1°531	58469	14	24°646	3°860
58167	37	5°046	18°504	58239	13	3°675	22°009	58311	15	24°806	25°896	58398	37	9°475	1°424	58470	10	0°730	4°050
58168	10	7°302	18°201	58240	22	3°953	22°316	58399	23	9°830	25°830	58399	23	9°830	1°638	58471	20	2°279	4°558
58169	10	9°058	18°825	58241	11	5°736	22°866	58400	12	11°591	18°182	58401	22	11°591	18°182	58472	18	2°456	4°184
58170	11	9°672	18°836	58242	20	7°135	22°095	58402	14	15°326	1°407	58403	12	12°134	1°407	58473	17	2°727	4°032
58171	32	16°112	18°506	58243	13	9°124	22°218	58404	14	15°326	1°407	58404	14	15°326	1°407	58474	32	3°600	4°454
58172	14	16°858	18°494	58244	15	10°190	22°965	58405	10	16°192	1°520	58406	30	16°192	1°520	58475	13	4°085	4°799
58173	24	22°056	18°800	58245	12	12°940	22°980	58407	30	16°574	1°998	58408	30	16°574	1°998	58476	17	4°716	4°314
58174	10	23°356	18°284	58246	16	13°178	22°788	58409	51	17°682	1°011	58410	51	17°682	1°011	58477	18	6°886	4°274
58175	34	1°146	19°680	58247	10	15°400	22°824	58411	13	19°240	1°470	58412	13	19°240	1°470	58478	34	7°421	4°122
58176	14	2°166	19°209	58248	36	18°554	22°772	58413	18	19°492	1°109	58414	18	19°492	1°109	58479	18	7°466	4°211
58177	29	2°350	19°100	58249	41	19°284	22°844	58415	28	19°790	1°772	58416	22	20°792	1°796	58480	14	8°420	4°355
58178	13	3°025	19°166	58250	65	21°132	22°334	58417	11	20°802	1°581	58418	11	20°802	1°581	58481	36	8°992	4°281
58179	10	3°074	19°588	58251	19	22°658	22°334	58419	22	20°802	1°581	58420	22	20°802	1°581	58482	33	9°145	4°170
58180	31	3°897	19°707	58252	11	22°845	22°951	58421	19	22°100	1°411	58422	17	10°384	1°060	58483	17	10°384	4°906
58181	25	4°570	19°276	58253	12	23°474	22°406	58423	19	22°663	1°782	58424	19	22°663	1°782	58484	10	10°600	4°732
58182	30	5°122	19°433	58254	18	23°778	22°160	58425	21	23°545	1°692	58426	21	23°545	1°692	58485	19	11°176	4°570
58183	19	5°920	19°940	58255	15	25°452	22°010	58427	21	2°216	2°972	58428	21	2°216	2°972	58486	13	12°700	4°796
58184	14	6°477	19°096	58256	28	25°934	22°148	58429	17	0°442	2°772	58430	17	0°442	2°772	58487	18	15°136	4°854
58185	20	9°604	19°562	58257	10	0°138	23°380	58431	17	1°040	2°504	58432	17	1°040	2°504	58488	36	16°224	4°824
58186	30	9°754	19°746	58258	13	4°768	23°854	58433	17	1°560	2°950	58434	17	1°560	2°950	58489	12	16°743	4°656
58187	39	11°370	19°182	58259	10	7°380	23°848	58435	18	1°952	2°302	58436	18	1°952	2°302	58490	15	16°898	4°158
58188	10	12°323	19°063	58260	29	11°875	23°042	58437	15	3°082	2°748	58438	15	3°082	2°748	58491	23	16°984	4°952
58189	14	14°951	19°202	58261	43	12°104	23°326	58439	22	3°598	2°941	58440	22	3°598	2°941	58492	23	17°108	4°709
58190	10	21°330	19°322	58262	12	12°336	23°604	58441	50	4°120	2°420	58442	50	4°120	2°420	58493	13	17°131	4°594
58191	12	21°940	19°416	58263	12	15°032	23°018	58443	12	5°038	2°028	58444	12	5°038	2°028	58494	20	17°248	4°494
58192	11	22°758	19°982	58264	11	17°007	23°592	58445	43	5°570	2°690	58446	43	5°570	2°690	58495	12	19°050	4°441
58193	15	23°138	19°740	58265	13	19°460	23°463	58447	10	6°334	2°118	58448	10	6°334	2°118	58496	38	21°278	4°074
58194	22	23°546	19°966	58266	35	19°810	23°001	58449	16	7°000	2°168	58450	16	7°000	2°168	58497	24	21°526	4°201
58195	72	23°700	19°235	58267	20	20°555	23°709	58451	18	7°398	2°476	58452	18	7°398	2°476	58498	34	21°558	4°028
58196	23	24°288	19°933	58268	14	21°756	23°040	58453	31	6°411	0°603	58454	31	6°411	0°603	58499	21	22°638	4°893
58197	21	24°314	19°933	58269	18	22°543	23°198	58455	19	6°732	0°747	58456	19	6°732	0°747	58500	13	23°112	4°144
58198	29	25°316	19°550	58270	13	22°755	23°563	58457	16	8°080	0°964	58458	16	8°080	0°964	58501	23	23°962	4°454
58199	13	25°330	19°446	58271	27	24°853	23°122	58459	17	9°060	0°662	58460	17	9°060	0°662	58502	22	24°003	4°854
58200	33	25°958	19°138	58272	27	24°853	23°122	58461	17	9°118	0°103	58462	17	9°118	0°103	58503	18	1°234	5°512
58201	29	1°527	20°064	58273	16	2°383	24°452	58463	18	9°370	0°108	58464	18	9°370	0°108	58504	23	2°218	5°720
58202	20	1°634	20°724	58274	25	3°160	24°197	58465	20	10°396	0°096	58466	20	10°396	0°096	58505	23	2°346	5°720
58203	39	2°655	20°806	58275	33	4°072	24°800	58467	17	10°682	0°554	58468	17	10°682	0°554	58506	13	3°091	5°995
58204	15	3°354	20°645	58276	23	7°052	24°384	58469	24	12°002	0°502	58470	24	12°002	0°502	58507	16	5°094	5°990
58205	20	4°984	20°104	58277	57	7°144	24°337	58471	21	15°311	0°232	58472	21	15°311	0°232	58508	16	5°860	5°596
58206	12	8°004	20°713	58278	10	7°70													

58519	18	12-394	5-020	58591	16	18-250	7-128	58663	15	23-718	9-804	58735	12	18-348	12-744	58807	11	1-246	15-072
58520	14	13-934	5-150	58592	12	19-147	7-720	58664	14	23-775	9-698	58736	18	19-964	12-753	58808	33	1-485	15-610
58521	19	14-970	5-979	58593	18	21-107	7-566	58665	19	24-010	9-962	58737	21	20-928	12-560	58809	11	1-862	15-662
58522	26	15-750	5-132	58594	11	21-383	7-600	58666	27	24-512	9-298	58738	22	21-548	12-704	58810	15	4-170	15-993
58523	22	16-752	5-044	58595	10	22-290	7-817	58667	21	24-710	9-574	58739	23	22-526	12-790	58811	11	5-464	15-790
58524	23	17-108	5-086	58596	10	22-842	7-647	58668	10	25-036	9-514	58740	34	22-867	12-640	58812	11	8-723	15-606
58525	11	18-744	5-834	58597	29	23-075	7-444	58669	35	25-603	9-632	58741	31	24-734	12-224	58813	18	8-734	15-394
58526	30	19-154	5-454	58598	13	23-208	7-338	58670	12	0-302	10-842	58742	18	24-914	12-210	58814	12	9-814	15-800
58527	19	19-655	5-330	58599	13	23-346	7-288	58671	17	0-314	10-354	58743	11	25-440	12-252	58815	14	9-822	15-776
58528	37	19-884	5-188	58600	33	23-352	7-898	58672	23	1-074	10-077	58744	12	1-408	13-402	58816	10	10-190	15-718
58529	11	20-034	5-717	58601	13	23-624	7-727	58673	12	2-843	10-998	58745	11	1-662	13-186	58817	14	11-876	15-776
58530	10	20-306	5-489	58602	14	25-484	7-578	58674	19	3-460	10-200	58746	16	3-982	13-394	58818	32	14-863	15-966
58531	10	20-831	5-500	58603	18	25-521	7-220	58675	20	4-118	10-146	58747	50	5-294	13-126	58819	10	18-486	15-563
58532	45	21-220	5-189	58604	19	25-766	7-372	58676	10	4-266	10-811	58748	20	5-942	13-959	58820	17	18-568	15-826
58533	13	21-724	5-198	58605	10	0-213	8-556	58677	23	5-252	10-376	58749	10	6-228	13-758	58821	23	19-133	15-732
58534	31	21-863	5-342	58606	15	0-629	8-519	58678	23	5-718	10-467	58750	24	7-348	13-571	58822	11	19-887	15-712
58535	27	23-109	5-422	58607	14	1-890	8-449	58679	14	5-828	10-146	58751	39	7-846	13-796	58823	16	19-958	15-922
58536	47	25-320	5-630	58608	12	2-698	8-754	58680	31	6-638	10-896	58752	39	8-204	13-412	58824	10	19-963	15-200
58537	11	0-888	6-219	58609	13	2-794	8-910	58681	30	6-974	10-495	58753	10	8-747	13-510	58825	20	20-058	15-792
58538	10	1-258	6-258	58610	26	4-054	8-949	58682	25	8-311	10-428	58754	22	10-044	13-810	58826	10	20-566	15-788
58539	13	2-110	6-592	58611	12	4-064	8-048	58683	12	9-336	10-695	58755	21	12-028	13-455	58827	44	20-662	15-804
58540	11	2-120	6-915	58612	32	4-917	8-064	58684	20	9-432	10-717	58756	24	14-394	13-999	58828	19	20-712	15-808
58541	44	2-348	6-160	58613	33	5-104	8-037	58685	21	9-806	10-068	58757	20	14-912	13-610	58829	15	20-735	15-808
58542	53	3-536	6-382	58614	21	6-806	8-740	58686	10	10-889	10-042	58758	19	15-654	13-828	58830	39	20-775	15-140
58543	33	3-556	6-319	58615	10	6-864	8-376	58687	28	16-711	10-400	58759	13	17-716	13-110	58831	17	20-968	15-098
58544	25	5-270	6-302	58616	12	7-315	8-568	58688	24	17-846	10-321	58760	12	18-330	13-564	58832	11	20-972	15-640
58545	15	5-644	6-243	58617	10	7-602	8-090	58689	16	18-680	10-759	58761	12	21-050	13-589	58833	15	21-122	15-825
58546	12	5-866	6-957	58618	45	7-732	8-932	58690	26	19-026	10-932	58762	13	21-254	13-972	58834	19	21-163	15-744
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58548	17	6-010	6-524	58620	19	11-367	8-648	58692	18	19-780	10-575	58764	21	22-597	13-510	58836	30	21-685	15-349
58549	10	6-584	6-148	58621	33	14-909	8-082	58693	33	19-806	10-430	58765	24	23-116	13-770	58837	26	21-741	15-662
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58551	30	6-694	6-418	58623	16	17-251	8-688	58695	19	21-300	10-480	58767	13	24-209	13-682	58839	31	22-323	15-716
58552	20	10-842	6-558	58624	10	19-301	8-795	58696	21	21-482	10-521	58768	19	24-554	13-556	58840	10	22-770	15-798
58553	11	10-846	6-350	58625	45	19-347	8-408	58697	24	21-509	10-196	58769	29	25-212	13-376	58841	24	22-774	15-136
58554	10	11-382	6-358	58626	13	19-696	8-452	58698	20	21-784	10-788	58770	10	25-250	13-753	58842	19	23-510	15-992
58555	26	12-402	6-748	58627	13	21-058	8-228	58699	12	22-168	10-338	58771	19	25-700	13-774	58843	17	23-672	15-631
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58557	18	15-808	6-886	58629	30	21-998	8-026	58701	19	24-668	10-781	58773	24	3-252	14-252	58845	19	23-923	15-626
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58560	18	20-252	6-907	58632	12	22-706	8-612	58704	13	4-284	11-554	58776	62	3-863	14-692	58848	23	2-100	16-368
58561	23	20-270	6-730	58633	14	22-830	8-374	58705	33	8-294	11-834	58777	22	4-033	14-839	58849	21	2-552	16-344
58562	40	20-470	6-732	58634	23	22-864	8-806	58706	25	8-243	11-326	58778	34	5-257	14-233	58850	23	2-623	16-892
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58564	13	22-071	6-864	58636	19	24-064	8-231	58708	31	9-392	11-822	58780	10	5-398	14-962	58852	15	3-164	16-892
58565	12	22-298	6-612	58637	29	24-258	8-758	58709	11	9-546	11-260	58781	10	6-585	14-194	58853	25	3-786	16-101
58566	27	22-582	6-551	58638	11	24-789	8-941	58710	26	9-928	11-281	58782	39	6-702	14-392	58854	21	4-684	16-274
58567	29	22-767	6-202	58639	10	25-000	8-392	58711	38	10-503	11-698	58783	51	6-752	14-330	58855	17	8-048	16-622
58568	18	23-102	6-610	58640	17	25-011	8-608	58712	62	14-453	11-298	58784	10	6-910	14-008	58856	18	8-171	16-420
58569	10	23-423	6-390	58641	10	25-779	8-415	58713	11	19-504	11-879	58785	18	7-024	14-648	58857	16	8-320	16-212
58570	10	23-678	6-099	58642	25	2-265	9-245	58714	23	19-774	11-406	58786	12	5-652	14-516	58858	36	8-397	16-612
58571	21	24-012	6-688	58643	11	2-668	9-899	58715	26	21-207	11-509	58787	11	6-639	14-668	58859	10	10-686	16-558
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58575	12	1-820	7-817	58647	12	4-163	9-365	58719	27	23-258	11-294	58791	18	16-222	14-145	58863	21	14-665	16-743
58576	61	2-214	7-402	58648	12	5-608	9-153	58720	10	23-374	11-080	58792	13	18-100	14-880	58864	24	14-804	16-978
58577	20	3-762	7-217	58649	10	8-098	9-720	58721	13	24-705	11-837	58793	10	18-672	14-572	58865	17	16-680	16-243
58578	18	3-783	7-012	58650	13	10-584	9-643	58722	16	25-528	11-506	58794	31	18-738	14-014	58866	15	16-756	16-626
58579	31	3-924	7-008	58651	12	10-930	9-472	58723	13	0-486	12-818	58795	19	19-801	14-336	58867	14	16-951	16-424
58580	31	3-996	7-786	58652	37	14-846	9-652	58724	13	1-372	12-148	58796	13	20-886	14-969	58868	26	17-644	16-778
58581	23	4-162	7-976	58653	19	19-101	9-677	58725											

58879	31	20°44'	16°03'	58951	18	22°40'	18°23'	59023	40	12°50'	20°41'	59095	20	5°77'	22°64'	59167	11	16°72'	23°66'
58880	15	21°06'	16°26'	58952	10	22°43'	18°23'	59024	42	13°02'	20°41'	59096	18	5°83'	22°29'	59168	31	16°76'	23°61'
58881	31	21°09'	16°52'	58953	11	22°52'	18°34'	59025	16	13°08'	20°50'	59097	13	6°20'	22°02'	59169	18	17°24'	23°17'
58882	14	21°29'	16°32'	58954	29	22°58'	18°35'	59026	12	15°38'	20°52'	59098	19	7°25'	22°31'	59170	15	21°54'	23°70'
58883	32	21°50'	16°15'	58955	16	23°56'	18°27'	59027	17	15°76'	20°57'	59099	34	7°30'	22°73'	59171	33	21°635	23°940
58884	47	21°56'	16°14'	58956	36	24°27'	18°68'	59028	17	16°42'	20°55'	59100	19	9°36'	22°00'	59172	40	22°318	23°497
58885	10	21°72'	16°16'	58957	23	25°41'	18°26'	59029	18	16°44'	20°42'	59101	29	9°43'	22°41'	59173	21	22°539	23°879
58886	13	21°76'	16°29'	58958	19	0°04'	19°73'	59030	22	17°40'	20°44'	59102	20	9°71'	22°83'	59174	18	23°450	23°832
58887	18	21°86'	16°35'	58959	24	0°19'	19°20'	59031	15	18°14'	20°40'	59103	15	10°14'	22°47'	59175	12	23°494	23°836
58888	22	22°14'	16°42'	58960	66	1°36'	19°52'	59032	10	18°36'	20°59'	59104	12	11°64'	22°32'	59176	10	23°604	23°527
58889	29	23°48'	16°30'	58961	30	3°46'	19°20'	59033	30	18°44'	20°14'	59105	22	13°16'	22°54'	59177	25	24°685	23°168
58890	22	24°22'	16°57'	58962	13	3°57'	19°71'	59034	10	18°94'	20°50'	59106	16	13°16'	22°11'	59178	20	24°782	23°091
58891	19	24°37'	16°48'	58963	32	4°04'	19°39'	59035	92	18°98'	20°13'	59107	14	14°85'	22°55'	59179	11	25°815	23°372
58892	18	24°45'	16°24'	58964	19	4°10'	19°87'	59036	22	19°50'	20°37'	59108	18	14°96'	22°23'	59180	18	1°374	24°540
58893	23	24°71'	16°09'	58965	44	5°16'	19°36'	59037	27	19°87'	20°40'	59109	85	15°73'	22°06'	59181	10	1°811	24°270
58894	22	24°74'	16°84'	58966	34	7°03'	19°46'	59038	22	21°34'	20°64'	59110	23	16°55'	22°04'	59182	38	2°100	24°904
58895	26	24°77'	16°21'	58967	46	8°63'	19°47'	59039	12	21°80'	20°78'	59111	12	16°61'	22°06'	59183	20	3°532	24°531
58896	16	25°54'	16°20'	58968	10	8°71'	19°47'	59040	10	22°00'	20°69'	59112	30	17°54'	22°14'	59184	17	4°986	24°204
58897	16	0°53'	17°01'	58969	16	8°86'	19°08'	59041	12	23°21'	20°67'	59113	24	17°55'	22°05'	59185	26	5°094	24°866
58898	47	1°27'	17°05'	58970	11	11°47'	19°55'	59042	22	23°78'	20°24'	59114	13	17°58'	22°06'	59186	10	5°843	24°116
58899	19	2°02'	17°48'	58971	14	11°97'	19°39'	59043	44	24°15'	20°59'	59115	30	17°88'	22°03'	59187	10	7°308	24°022
58900	20	3°61'	17°53'	58972	32	12°08'	19°32'	59044	18	24°61'	20°83'	59116	10	18°68'	22°04'	59188	10	7°345	24°713
58901	11	5°27'	17°23'	58973	21	12°27'	19°02'	59045	23	25°36'	20°08'	59117	33	19°33'	22°54'	59189	24	8°279	24°821
58902	36	5°36'	17°17'	58974	13	13°04'	19°50'	59046	12	25°87'	20°54'	59118	16	19°87'	22°66'	59190	23	8°599	24°721
58903	11	6°48'	17°00'	58975	13	14°97'	19°50'	59047	47	2°69'	21°88'	59119	12	20°62'	22°08'	59191	17	8°674	24°772
58904	92	6°57'	17°05'	58976	45	14°98'	19°84'	59048	11	3°16'	21°76'	59120	22	20°77'	22°13'	59192	31	9°194	24°984
58905	12	7°47'	17°40'	58977	19	15°26'	19°48'	59049	18	3°23'	21°31'	59121	22	20°83'	22°56'	59193	26	9°983	24°530
58906	10	7°57'	17°58'	58978	19	15°36'	19°34'	59050	34	3°85'	21°71'	59122	15	22°09'	22°47'	59194	30	10°031	24°505
58907	22	10°55'	17°08'	58979	12	16°12'	19°52'	59051	22	3°89'	21°81'	59123	19	22°18'	22°08'	59195	10	10°114	24°332
58908	22	10°37'	17°13'	58980	22	16°38'	19°62'	59052	26	4°12'	21°84'	59124	32	22°53'	22°84'	59196	28	10°690	24°271
58909	18	11°40'	17°34'	58981	10	16°55'	19°54'	59053	35	4°74'	21°40'	59125	39	22°87'	22°40'	59197	18	11°938	24°648
58910	11	13°15'	17°05'	58982	33	17°21'	19°44'	59054	42	5°48'	21°28'	59126	10	22°94'	22°83'	59198	20	13°390	24°242
58911	12	14°67'	17°78'	58983	10	17°88'	19°51'	59055	26	6°48'	21°20'	59127	10	23°15'	22°82'	59199	12	13°948	24°809
58912	32	16°43'	17°93'	58984	14	18°47'	19°63'	59056	25	8°94'	21°17'	59128	10	23°22'	22°48'	59200	10	14°267	24°926
58913	10	16°70'	17°21'	58985	12	18°93'	19°37'	59057	32	9°24'	21°47'	59129	24	24°34'	22°70'	59201	15	15°617	24°884
58914	46	16°82'	17°19'	58986	17	18°94'	19°04'	59058	26	9°39'	21°66'	59130	10	25°34'	22°59'	59202	18	15°700	24°218
58915	35	18°24'	17°34'	58987	20	19°61'	19°02'	59059	14	9°85'	21°01'	59131	23	0°74'	23°51'	59203	26	16°308	24°587
58916	15	20°28'	17°57'	58988	50	19°64'	19°72'	59060	14	12°06'	21°01'	59132	17	0°96'	23°87'	59204	23	16°118	24°419
58917	20	20°30'	17°00'	58989	18	19°67'	19°65'	59061	16	13°86'	21°18'	59133	14	1°043	23°58'	59205	10	17°006	24°686
58918	25	20°56'	17°04'	58990	12	20°15'	19°00'	59062	22	14°14'	21°14'	59134	20	1°220	23°52'	59206	32	18°002	24°052
58919	11	22°44'	17°26'	58991	12	20°49'	19°60'	59063	18	14°93'	21°30'	59135	10	2°148	23°85'	59207	23	18°535	24°319
58920	12	23°03'	17°36'	58992	17	20°69'	19°72'	59064	20	15°85'	21°80'	59136	12	2°188	23°59'	59208	11	18°842	24°571
58921	15	23°09'	17°33'	58993	38	21°07'	19°67'	59065	26	16°98'	21°55'	59137	10	2°668	23°17'	59209	16	20°920	24°617
58922	12	23°72'	17°45'	58994	10	21°17'	19°73'	59066	23	17°36'	21°17'	59138	28	3°051	23°40'	59210	10	21°929	24°710
58923	24	25°06'	17°24'	58995	12	22°89'	19°12'	59067	10	17°68'	21°30'	59139	13	3°472	23°64'	59211	26	22°530	24°184
58924	35	1°12'	18°24'	58996	10	23°65'	19°32'	59068	10	17°68'	21°77'	59140	26	4°123	23°08'	59212	28	22°664	24°320
58925	15	2°28'	18°14'	58997	32	24°71'	19°71'	59069	11	17°86'	21°81'	59141	31	4°653	23°06'	59213	26	22°925	24°509
58926	13	3°17'	18°85'	58998	38	24°78'	19°02'	59070	12	17°86'	21°83'	59142	12	4°706	23°09'	59214	10	23°231	24°200
58927	10	3°27'	18°05'	58999	23	25°105	19°71'	59071	34	19°121	21°24'	59143	23	5°122	23°39'	59215	12	23°236	24°575
58928	17	3°32'	18°17'	59000	10	0°63'	20°52'	59072	20	19°922	21°83'	59144	34	5°918	23°38'	59216	30	23°520	24°990
58929	19	3°33'	18°01'	59001	10	0°81'	20°13'	59073	15	20°646	21°618	59145	17	6°323	23°22'	59217	23	24°670	24°974
58930	10	4°30'	18°44'	59002	17	0°909	20°292	59074	33	21°533	21°352	59146	20	6°848	23°084	59218	18	24°827	24°952
58931	13	4°904	18°682	59003	18	1°185	20°802	59075	10	21°551	21°250	59147	58	6°855	23°585	59219	24	25°558	24°506
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58933	11	5°322	18°787	59005	24	1°607	20°262	59077	26	22°547	21°095	59149	12	8°138	23°608	59221	32	2°796	25°526
58934	38	6°390	18°535	59006	50	2°446	20°334	59078	20	22°670	21°707	59150	18	8°268	23°597	59222	25	4°410	25°649
58935	44	8°688	18°622	59007	22	2°447	20°220	59079	21	23°150	21°608	59151	11	8°870	23°959	59223	18	5°494	25°740
58936	10	11°180	18°250	59008	25	2°463	20°220	59080	18	23°800	21°098	59152	22	9°270	23°931	59224	14	5°772	25°736
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58938	13	13°318	18°811	59010	19	4°082	20°900	59082	42	23°974	21°258	59154	20	9°436	23°928	59226	10	7°394	25°950
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58940	14	14°062	18°978	59012	13	4°347	20°760	59084	12	25°170	21°382	59156	22	12°267	23°282	59228	18	8°018	25°471
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58942	36	16°138	18°532	59014	15	5°150	20°808	59086	22	0°844	22°646	59158	16	12°792	23°8				



59239	12	13°620	25°213	59316	15	16°606	0°055	59388	24	21°155	3°664	59460	27	25°980	6°350	59532	29	6°515	9°024
59240	14	14°098	25°670	59317	13	19°380	0°841	59389	20	24°072	3°265	59461	10	0°046	7°242	59533	13	7°260	9°272
59241	10	14°133	25°283	59318	11	19°580	0°320	59390	20	25°727	3°760	59462	12	1°326	7°642	59534	19	8°700	9°990
59242	11	14°190	25°274	59319	64	20°666	0°452	59391	21	1°896	4°800	59463	15	1°085	7°032	59535	19	8°816	9°990
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				59367	18	2°060	3°226	59439	15	6°720	6°898	59511	36	19°905	8°497	59583	32	13°958	10°616
				59368	20	3°940	3°446	59440	10	8°694	6°965	59512	16	20°031	8°205	59584	16	15°048	10°759
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60347	34	20-690	1-094	60419	21	24-550	4-110	60491	59	20-822	5-769	60563	35	19-728	7-614	60635	37	22-054	9-804
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60350	24	23-486	1-944	60422	16	4-784	4-281	60494	27	22-172	5-656	60566	50	22-180	7-564	60638	15	23-822	9-921
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60354	26	0-557	2-537	60426	42	7-929	4-270	60498	29	2-223	6-418	60570	11	1-654	8-328	60642	30	5-770	10-108
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60374	10	14-650	2-054	60446	31	18-430	4-756	60518	30	16-116	6-076	60590	26	18-786	8-224	60662	18	17-024	10-207
60375	28</																		

60672	20	25°37'	10°67'	60744	16	25°14'	12°88'	60816	26	18°35'	14°75'	60888	27	5°58'	16°79'	60960	11	23°90'	17°61'
60673	13	0°18'	11°47'	60745	20	1°23'	13°97'	60817	42	18°26'	14°47'	60889	33	5°66'	16°53'	60961	49	24°14'	17°35'
60674	13	2°52'	11°91'	60746	17	1°88'	13°30'	60818	13	18°92'	14°94'	60890	26	6°48'	16°19'	60962	43	24°49'	17°65'
60675	20	2°78'	11°89'	60747	26	2°05'	13°21'	60819	82	19°88'	14°65'	60891	13	7°39'	16°42'	60963	16	24°70'	17°88'
60676	21	3°29'	11°50'	60748	19	2°40'	13°29'	60820	67	20°40'	14°83'	60892	10	9°02'	16°66'	60964	23	24°91'	17°80'
60677	30	3°64'	11°22'	60749	47	3°38'	13°82'	60821	46	21°12'	14°90'	60893	14	10°17'	16°42'	60965	14	25°10'	17°03'
60678	14	4°56'	11°20'	60750	12	3°66'	13°80'	60822	15	21°20'	14°57'	60894	34	10°32'	16°52'	60966	12	25°59'	17°12'
60679	24	5°15'	11°38'	60751	14	4°18'	13°33'	60823	14	21°25'	14°67'	60895	25	10°60'	16°90'	60967	24	0°62'	18°04'
60680	47	6°65'	11°10'	60752	52	4°75'	13°18'	60824	17	21°77'	14°73'	60896	31	11°48'	16°95'	60968	36	1°20'	18°17'
60681	17	7°47'	11°10'	60753	42	5°36'	13°63'	60825	50	22°78'	14°22'	60897	43	11°59'	16°36'	60969	10	2°27'	18°75'
60682	10	7°15'	11°12'	60754	13	5°40'	13°17'	60826	10	23°16'	14°73'	60898	13	12°37'	16°15'	60970	31	2°29'	18°35'
60683	11	7°58'	11°09'	60755	15	6°35'	13°06'	60827	39	25°77'	14°28'	60899	34	12°79'	16°58'	60971	20	2°01'	18°65'
60684	41	9°36'	11°71'	60756	10	6°89'	13°74'	60828	31	0°183	15°49'	60900	11	14°86'	16°72'	60972	18	3°18'	18°21'
60685	23	10°16'	11°61'	60757	51	7°59'	13°45'	60829	31	0°511	15°07'	60901	27	18°20'	16°19'	60973	34	4°24'	18°35'
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60687	32	11°41'	11°86'	60759	11	8°504	13°82'	60831	11	1°670	15°24'	60903	10	18°259	16°29'	60975	32	5°34'	18°63'
60688	35	13°90'	11°25'	60760	14	8°580	13°61'	60832	16	2°568	15°58'	60904	10	18°895	16°20'	60976	10	5°17'	18°33'
60689	14	14°88'	11°79'	60761	12	9°230	13°65'	60833	38	3°218	15°194	60905	12	19°458	16°350	60977	13	5°52'	18°010
60690	26	15°054	11°518	60762	15	9°590	13°750	60834	20	4°054	15°244	60906	33	19°478	16°456	60978	48	0°174	18°444
60691	27	15°086	11°484	60763	20	11°582	13°540	60835	14	5°034	15°015	60907	26	19°552	16°944	60979	47	6°179	18°338
60692	15	15°492	11°070	60764	31	12°238	13°834	60836	27	5°374	15°472	60908	29	20°646	16°484	60980	27	6°318	18°464
60693	10	15°752	11°152	60765	10	13°537	13°186	60837	34	5°704	15°155	60909	14	20°838	16°627	60981	24	6°436	18°242
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60699	27	17°230	11°864	60771	23	14°657	13°448	60843	34	9°802	15°466	60915	11	0°506	17°557	60987	12	6°880	18°586
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60701	17	19°685	11°974	60773	26	16°192	13°906	60845	20	10°970	15°790	60917	15	1°970	17°514	60989	27	7°182	18°570
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60710	18	1°924	12°510	60782	15	18°255	13°338	60854	13	17°856	15°994	60926	27	7°336	17°844	60998	36	7°453	18°406
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60718	18	5°210	12°590	60790	61	22°790	13°436	60862	13	19°186	15°309	60934	18	9°356	17°958	61006	64	7°728	18°592
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60723	51	11°130	12°078	60795	21	0°972	14°458	60867	16	21°500	15°730	60939	14	12°340	17°372	61011	13	8°032	18°919
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60734	16	16°876	12°001	60806	24	12°545	14°982	60878	45	2°320	16°								

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61045	30	21-152	18-884	61117	17	21-520	19-526	61189	13	3-397	21-973	61261	12	18-200	22-310	61333	13	25-652	23-420
61046	28	21-614	18-348	61118	21	21-804	19-182	61190	33	3-624	21-613	61262	15	19-136	22-580	61334	11	0-323	24-710
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61048	39	21-905	18-636	61120	38	22-217	19-520	61192	110	4-304	21-252	61264	21	19-272	22-610	61336	10	1-388	24-610
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61050	15	22-382	18-660	61122	43	23-450	19-670	61194	17	4-544	21-686	61266	27	21-192	22-052	61338	35	2-260	24-260
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61054	11	22-841	18-312	61126	40	25-364	19-054	61198	25	6-910	21-474	61270	31	22-384	22-879	61342	36	2-930	24-721
61055	15	23-932	18-070	61127	14	25-680	19-620	61199	14	6-947	21-550	61271	30	22-849	22-656	61343	43	2-973	24-164
61056	14	23-970	18-158	61128	23	0-552	20-465	61200	12	8-200	21-024	61272	30	23-155	22-293	61344	44	3-144	24-564
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61058	13	25-231	18-804	61130	14	1-350	20-216	61202	19	8-958	21-390	61274	18	24-486	22-496	61346	34	3-947	24-952
61059	14	25-459	18-108	61131	11	1-506	20-186	61203	37	9-322	21-122	61275	10	25-708	22-342	61347	28	4-157	24-426
61060	31	25-710	18-309	61132	40	1-576	20-356	61204	27	9-594	21-686	61276	25	25-898	22-513	61348	14	5-054	24-640
61061	34	25-936	18-781	61133	46	1-648	20-016	61205	16	10-403	21-254	61277	15	1-578	23-196	61349	22	5-800	24-572
61062	13	0-538	19-687	61134	37	2-400	20-841	61206	27	11-048	21-034	61278	72	2-962	23-468	61350	11	5-838	24-811
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61064	37	0-820	19-790	61136	18	3-584	20-470	61208	10	11-448	21-228	61280	47	4-100	23-050	61352	13	7-492	24-772
61065	27	1-696	19-751	61137	21	3-830	20-285	61209	12	12-403	21-180	61281	35	4-400	23-660	61353	11	8-451	24-870
61066	30	2-922	19-626	61138	40	4-918	20-502	61210	14	12-942	21-235	61282	17	4-834	23-810	61354	10	9-272	24-114
61067	29	3-342	19-520	61139	26	4-016	20-402	61211	52	13-430	21-258	61283	29	5-088	23-665	61355	46	10-734	24-577
61068	15	3-606	19-359	61140	41	4-128	20-636	61212	39	13-433	21-344	61284	76	5-093	23-204	61356	43	12-002	24-186
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61071	40	4-304	19-316	61143	26	4-910	20-090	61215	16	16-622	21-630	61287	29	6-716	23-630	61359	42	15-678	24-993
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61080	14	6-266	19-297	61152	62	7-538	20-880	61224	14	21-505	21-415	61296	11	11-885	23-032	61368	16	19-174	24-283
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61084	75	7-074	19-440	61156	23	8-180	20-474	61228	13	24-532	21-256	61300	17	16-404	23-802	61372	14	21-924	24-034
61085	38	7-210	19-044	61157	12	8-434	20-163	61229	17	24-557	21-750	61301	17	16-530	23-802	61373	20	22-088	24-903
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61087	14	7-498	19-998	61159	11	9-494	20-850	61231	17	0-843	22-854	61303	51	17-010	23-335	61375	30	22-654	24-090
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61091	14	8-179	19-126	61163	20	11-801	20-644	61235	22	1-910	22-425	61307	11	18-291	23-170	61379	16	25-400	24-503
61092	34	9-097	19-989	61164	35	12-091	20-804	61236	16	1-952	22-834	61308	18	18-650	23-902	61380	28	2-826	25-068
61093	44	9-368	19-054	61165	46	12-226	20-114	61237	12	2-068	22-771	61309	18	19-283	23-509	61381</			



0	23°33'	61392	17	6°394	25°832	61458	10	4°468	0°438	61530	24	6°082	1°670	61602	19	2°174	2°328	61674	12	2°567	3°954
1	23°36'	61393	10	7°372	25°371	61459	20	5°181	0°408	61531	11	6°712	1°831	61603	32	2°385	2°040	61675	42	2°723	3°984
5	23°78'	61394	22	7°537	25°522	61460	10	5°326	0°443	61532	10	6°836	1°150	61604	11	2°496	2°936	61676	15	2°890	3°518
10	23°90'	61395	23	8°260	25°258	61461	25	5°524	0°453	61533	12	7°519	1°550	61605	15	2°974	2°603	61677	21	2°920	3°264
10	23°26'	61396	30	8°706	25°380	61462	13	5°574	0°499	61534	24	8°325	1°208	61606	32	3°257	2°599	61678	15	3°264	3°428
19	23°54'	61397	14	9°012	25°069	61463	16	6°097	0°648	61535	28	8°640	1°086	61607	18	3°468	2°841	61679	10	3°352	3°976
30	23°594	61398	23	9°934	25°258	61464	10	6°115	0°690	61536	12	8°947	1°391	61608	15	4°151	2°154	61680	18	3°442	3°908
40	23°668	61399	27	10°560	25°278	61465	12	6°126	0°437	61537	12	9°492	1°480	61609	18	4°376	2°547	61681	25	3°724	3°624
44	23°194	61400	27	10°989	25°981	61466	27	6°168	0°482	61538	26	10°210	1°132	61610	25	4°430	2°144	61682	15	3°935	3°265
52	23°192	61401	31	11°472	25°660	61467	34	8°100	0°708	61539	13	10°957	1°033	61611	10	4°774	2°466	61683	12	4°030	3°238
57	23°452	61402	25	11°686	25°938	61468	11	8°216	0°478	61540	30	11°126	1°891	61612	33	5°670	2°694	61684	51	4°185	3°450
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76	23°443	61404	32	12°158	25°650	61470	30	8°697	0°670	61542	16	11°512	1°638	61614	22	6°092	2°996	61686	21	4°678	3°962
80	23°710	61405	12	12°379	25°844	61471	12	8°698	0°420	61543	21	11°572	1°932	61615	39	6°119	2°912	61687	37	4°925	3°620
88	24°510	61406	22	12°578	25°044	61472	19	8°704	0°934	61544	38	11°580	1°336	61616	23	6°814	2°074	61688	11	5°121	3°216
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181	24°978	61410	26	14°650	25°101	61476	10	9°989	0°919	61548	39	11°996	1°675	61620	34	7°547	2°030	61692	20	6°834	3°043
202	24°940	61411	24	14°953	25°380	61477	21	10°064	0°539	61549	165	12°047	1°661	61621	19	7°780	2°820	61693	20	6°903	3°549
230	24°816	61412	40	15°710	25°320	61478	12	10°114	0°456	61550	13	12°064	1°915	61622	10	7°950	2°928	61694	24	7°136	3°639
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377	24°854	61416	78	17°162	25°774	61482	10	12°072	0°893	61554	10	12°296	1°606	61626	25	8°150	2°669	61698	40	7°802	3°703
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457	24°426	61418	16	17°536	25°000	61484	26	13°076	0°882	61556	17	12°529	1°544	61628	14	9°502	2°020	61700	15	8°472	3°988
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587	24°123	61422	10	18°920	25°877	61488	19	14°842	0°580	61560	28	13°030	1°564	61632	10	11°126	2°092	61704	11	9°020	3°828
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674	24°577	61426	18	21°340	25°988	61492	31	16°200	0°169	61564	26	14°115	1°358	61636	33	12°496	2°658	61708	30	9°608	3°312
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766	24°336	61429	14	22°350	25°013	61495	35	16°915	0°414	61567	16	15°120	1°829	61639	26	12°750	2°804	61711	35	10°938	3°558
797	24°026	61430	47	22°946	25°043	61496	17	17°094	0°050	61568	35	15°164	1°985	61640	19	13°065	2°726	61712	10	11°073	3°521
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851	24°993	61432	28	25°434	25°586	61498	17	17°799	0°082	61570	16	15°478	1°300	61642	31	13°307	2°691	61714	13	12°409	3°538
885	24°445	61500	12	18°274	0°700	61572	10	18°704	0°700	61572	10	15°745	1°762	61644	10	13°405	2°712	61715	17	12°886	3°777
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992	24°218	61504	12	20°234	0°524	61576	26	16°787	1°414	61648	25	15°447	1°880	61648	25	15°447	1°880	61719	30	14°934	3°731
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1175	24°034	61512	12	23°914	0°500	61584	27	18°880	1°821	61656	14	20°064	2°920	61656	14	20°064	2°920	61727	11	20°547	3°220
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1267	24°18																				



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61749	22	2-342	4-390	61821	10	16-910	4-110	61893	34	15-499	5-016	61965	14	8-238	6-810	62037	20	4-151	7-782
61750*	47	2-366	4-880	61822	11	17-020	4-152	61894	28	16-056	5-692	61966	44	8-497	6-554	62038	11	4-204	7-200
61751	36	2-485	4-668	61823	25	17-346	4-994	61895	14	16-433	5-987	61967	13	8-786	6-034	62039	17	4-379	7-210
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61755	27	2-960	4-604	61827	14	18-635	4-790	61899	35	16-865	5-649	61971	34	9-576	6-901	62043	13	5-565	7-443
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61758	12	3-704	4-841	61830	14	19-345	4-134	61902	11	19-310	5-630	61974	17	9-992	6-170	62046	21	7-608	7-170
61759	64	3-874	4-680	61831	26	19-546	4-562	61903	16	19-576	5-904	61975	21	10-221	6-886	62047	10	7-705	7-830
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61763	31	4-495	4-302	61835	13	21-256	4-469	61907	15	20-726	5-908	61979	10	10-435	6-134	62051	33	7-928	7-041
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63194	15	8°778	20°366	63266	12	10°297	21°318	63338	22	11°126	22°255	63410	25	6°246	23°736	63482	15	0°258	24°062
63195	13	9°090	20°414	63267	55	11°159	21°228	63339	17	12°532	22°752	63411	11	7°135	23°254	63483	16	0°553	24°094
63196	15	9°128	20°420	63268	12	11°188	21°260	63340	10	12°615	22°964	63412	14	7°182	23°916	63484	27	0°730	24°962
63197	10	9°143	20°498	63269	15	11°552	21°455	63341	35	12°931	22°618	63413	18	7°274	23°060	63485	17	1°080	24°552
63198	35	10°246	20°864	63270	15	11°595	21°054	63342	30	13°570	22°335	63414	26	8°044	23°752	63486	32	1°294	24°740
63199	13	10°309	20°029	63271	26	11°705	21°225	63343	10	13°900	22°686	63415	30	8°158	23°480	63487	18	1°602	24°234
63200	17	10°466	20°347	63272	26	11°822	21°102	63344	24	14°098	22°420	63416	17	8°225	23°430	63488	10	2°162	24°980
63201	14	10°425	20°894	63273	28	12°190	21°982	63345	10	14°534	22°350	63417	15	8°660	23°909	63489	39	2°409	24°884
63202	12	10°450	20°762	63274	32	12°995	21°814	63346	13	14°789	22°474	63418	36	8°819	23°189	63490	18	2°696	24°938
63203	13	11°245	20°910	63275	24	13°076	21°520	63347	10	15°184	22°484	63419	32	8°862	23°920	63491	10	2°794	24°679
63204	13	12°058	20°512	63276	24	13°100	21°448	63348	25	15°214	22°065	63420	31	9°032	23°040	63492	14	3°100	24°749
63205	15	12°395	20°234	63277	12	14°028	21°440	63349	20	15°320	22°903	63421	35	9°095	23°130	63493	30	4°094	24°515
63206	12	12°666	20°468	63278	10	14°152	21°278	63350	20	15°364	22°534	63422	15	9°436	23°083	63494	19	5°267	24°288
63207	22	12°711	20°050	63279	38	14°253	21°406	63351	12	16°242	22°764	63423	17	10°443	23°012	63495	34	6°660	24°184
63208	12	12°818	20°220	63280	34	14°748	21°035	63352	12	16°242	22°764	63424	12	10°581	23°006	63496	21	8°075	24°910
63209	42	12°981	20°750	63281	29	14°915	21°596	63353	12	16°341	22°540	63425	28	10°692	23°091	63497	25	8°350	24°106
63210	36	13°002	20°860	63282	35	14°917	21°754	63354	12	16°760	22°936	63426	10	11°170	23°946	63498	22	8°397	24°205
63211	13	13°863	20°960	63283	14	14°980	21°610	63355	19	16°936	22°488	63427	13	11°294	23°034	63499	13	9°430	24°164
63212	14	14°218	20°816	63284	15	15°294	21°917	63356	19	17°100	22°627	63428	12	11°639	23°710	63500	12	9°494	24°266
63213	17	14°295	20°188	63285	15	15°420	21°994	63357	10	17°975	22°678	63429	19	11°640	23°600	63501	19	9°872	24°724
63214	17	14°970	20°360	63286	24	15°662	21°574	63358	22	17°982	22°026	63430	12	11°746	23°211	63502	21	9°928	24°802
63215	23	15°016	20°466	63287	29	16°070	21°557	63359	10	18°034	22°677	63431	14	12°388	23°106	63503	18	10°290	24°300
63216	15	15°564	20°770	63288	10	16°250	21°681	63360	19	19°528	22°458	63432	30	12°942	23°466	63504	18	11°450	24°934
63217	23	16°274	20°682	63289	44	16°500	21°480	63361	13	20°070	22°858	63433	16	13°050	23°118	63505	22	11°884	24°640
63218	12	17°304	20°422	63290	34	17°618	21°988	63362	39	20°181	22°080	63434	16	13°638	23°012	63506	27	12°000	24°938
63219	13	18°043	20°638	63291	17	17°630	21°928	63363	14	20°187	22°578	63435	12	13°674	23°715	63507	16	12°510	24°915
63220	10	18°068	20°970	63292	10	18°566	21°794	63364	11	20°410	22°262	63436	22	13°874	23°506	63508	14	12°514	24°440
63221	32	18°824	20°721	63293	13	18°764	21°508	63365	23	20°661	22°792	63437	35	14°123	23°264	63509	11	13°102	24°386
63222	14	18°826	20°979	63294	10	18°942	21°242	63366	39	20°938	22°601	63438	38	14°318	23°051	63510	10	13°885	24°738
63223	28	18°865	20°934	63295	26	19°259	21°623	63367	16	21°032	22°600	63439	27	14°797	23°922	63511	32	14°025	24°917
63224	24	18°948	20°245	63296	13	19°470	21°604	63368	10	21°164	22°313	63440	20	15°064	23°682	63512	16	14°420	24°515
63225	28	18°961	20°346	63297	13	20°180	21°510	63369	36	21°292	22°865	63441	40	15°189	23°259	63513	31	14°546	24°500
63226	14	19°300	20°830	63298	10	20°625	21°907	63370	12	21°306	22°120	63442	40	15°566	23°350	63514	35	14°932	24°474
63227	29	19°487	20°027	63299	18	21°170	21°200	63371	30	21°314	22°258	63443	40	16°454	23°740	63515	12	15°201	24°609
63228	14	19°716	20°910	63300	30	21°200	21°037	63372	10	22°067	22°244	63444	13	17°013	23°778	63516	10	15°212	24°663
63229	18	19°780	20°580	63301	13	21°419	21°825	63373	19	22°579	22°814	63445	17	17°569	23°398	63517	17	10°170	24°244
63230	22	19°789	20°574	63302	10	21°551	21°927	63374	22	22°698	22°530	63446	12	17°675	23°772	63518	18	10°694	24°288
63231	10	19°995	20°255	63303	16	22°030	21°146	63375	24	23°137	22°300	63447	24	17°738	23°589	63519	18	10°722	24°936
63232	27	20°100	20°445	63304	24	22°310	21°462	63376	18	23°665	22°684	63448	10	17°772	23°857	63520	13	10°830	24°050
63233	10	21°555	20°898	63305	18	22°603	21°062	63377	12	23°971	22°574	63449	33	18°028	23°562	63521	12	17°196	24°121
63234	22	22°016	20°490	63306	23	22°611	21°544	63378	26	24°390	22°225	63450	30	18°156	23°080	63522	17	17°381	24°340
63235	31	22°330	20°040	63307	10	23°820	21°030	63379	25	24°450	22°762	63451	12	18°744	23°831	63523	41	18°220	24°930
63236	35	22°523	20°254	63308	35	24°750	21°624	63380	17	24°526	22°056	63452	11	18°798	23°986	63524	12	18°528	24°896
63237	20	22°714	20°106	63309	11	0°062	22°206	63381	13	25°910	22°694	63453	21	18°892	23°115	63525	13	18°614	24°260
63238	17	22°738	20°150	63310	13	0°170	22°405	63382	10	25°956	22°340	63454	16	18°912	23°110	63526	13	19°069	24°116
63239	14	23°297	20°074	63311	10	0°762	22°478	63383	11	0°240	23°844	63455	13	19°000	23°394	63527	15	19°170	24°188
63240	24	23°452	20°669	63312	13	0°788	22°123	63384	24	0°458	23°359	63456	36	19°514	23°831	63528	35	19°265	24°370
63241	17	25°474	20°528	63313	35	0°996	22°934	63385	23	0°532	23°520	63457	30	19°514	23°552	63529	43	20°365	24°302
63242	15	0°009	21°481	63314	27	1°174	22°862	63386	12	0°550	23°714	63458	12	19°519	23°646	63530	37	20°415	24°650
63243	12	0°414	21°901	63315	32	1°450	22°702	63387	37	1°038	23°648	63459	10	19°904	23°540	63531	11	20°760	24°987
63244	21	0°570	21°150	63316	14	1°700	22°336	63388	13	1°356	23°532	63460	17	19°986	23°670	63532	35	21°180	24°394
63245	30	1°286	21°852	63317	14	2°044	22°893	63389	10	1°513	23°952	63461	24	20°055	23°722	63533	24	21°800	24°031
63246	40	1°498	21°268	63318	11	2°369	22°502	63390	33	1°606	23°690	63462	25	20°100	23°421	63534	28	21°096	24°792
63247	14	1°885	21°696	63319	30	2°925	22°288	63391	23	1°950	23°668	63463							



2 2556	23780	63546	43	1°583	25°089	63706	13	24°866	0°451	63778	14	10°174	2°600	63850	21	8°541	3°990
23251	23147	63547	10	1°794	25°150	63707	20	25°162	0°160	63779	23	10°406	2°385	63851	20	9°228	3°181
23536	23303	63548	25	2°470	25°295	63708	15	25°843	0°666	63780	11	11°076	2°300	63852	17	9°395	3°271
23700	23509	63549	31	4°083	25°598	63709	12	0°405	1°308	63781	14	11°144	2°124	63853	18	10°350	3°850
24054	23020	63550	10	4°440	25°873	63710	20	0°715	1°096	63782	11	11°342	2°544	63854	14	10°535	3°964
24831	23542	63551	17	5°276	25°965	63711	23	1°376	1°826	63783	32	11°565	2°526	63855	14	11°074	3°112
24870	23804	63552	37	5°448	25°926	63712	28	1°888	1°656	63784	11	11°722	2°207	63856	14	11°400	3°186
251918	23132	63553	27	5°453	25°192	63713	14	2°634	1°006	63785	18	12°004	2°288	63857	11	12°988	3°119
0°258	24062	63554	22	5°974	25°904	63714	30	2°820	1°126	63786	13	12°205	2°906	63858	20	13°109	3°739
0°553	24094	63555	31	6°086	25°670	63715	21	2°872	1°334	63787	12	12°316	2°062	63859	12	13°396	3°617
0°730	24962	63556	15	7°278	25°284	63716	12	3°014	1°506	63788	14	12°420	2°498	63860	17	13°719	3°394
1°080	24352	63557	10	7°506	25°062	63717	13	3°047	1°722	63789	13	12°580	2°736	63861	12	14°074	3°394
1°294	24352	63558	10	9°052	25°346	63718	24	3°824	1°464	63790	48	12°594	2°078	63862	40	14°413	3°552
1°602	24234	63559	11	9°774	25°608	63719	34	3°966	1°013	63791	13	12°604	2°925	63863	37	14°620	3°534
2°162	24980	63560	30	10°049	25°548	63720	38	4°226	1°566	63792	18	12°894	2°564	63864	12	15°232	3°201
2°400	24884	63561	78	10°142	25°948	63721	32	5°611	1°272	63793	20	13°056	2°440	63865	38	15°413	3°340
2°696	24938	63562	10	10°179	25°236	63722	14	6°154	1°674	63794	11	13°428	2°072	63866	13	15°806	3°446
2°794	24679	63563	13	10°214	25°684	63723	12	6°384	1°186	63795	39	14°388	2°066	63867	16	16°159	3°626
3°100	24749	63564	16	10°590	25°791	63724	24	6°644	1°766	63796	35	15°256	2°564	63868	39	16°392	3°144
4°094	25515	63565	18	10°746	25°031	63725	18	7°273	1°742	63797	15	15°296	2°595	63869	14	16°896	3°734
5°267	24288	63566	25	10°908	25°050	63726	24	7°758	1°866	63798	16	15°441	2°617	63870	12	17°387	3°303
6°660	24184	63567	29	10°934	25°016	63727	16	9°054	1°218	63799	11	15°760	2°545	63871	12	17°566	3°204
8°075	24910	63568	24	10°968	25°036	63728	28	10°106	1°913	63800	12	16°224	2°625	63872	12	18°606	3°894
8°350	24106	63569	10	11°264	25°560	63729	11	11°016	1°296	63801	14	16°335	2°510	63873	19	20°876	3°132
9°077	24205	63570	11	11°499	25°295	63730	38	11°114	1°705	63802	16	17°410	2°800	63874	22	21°950	3°086
9°264	24164	63571	39	11°824	25°350	63731	13	11°178	1°532	63803	12	17°682	2°554	63875	22	22°750	3°628
9°266	24266	63572	38	11°924	25°750	63732	14	11°710	1°499	63804	17	17°848	2°846	63876	16	23°150	3°162
9°288	24800	63573	20	12°225	25°621	63733	12	12°874	1°528	63805	24	17°908	2°742	63877	12	23°341	3°465
9°390	24302	63574	32	12°448	25°378	63734	24	13°934	1°444	63806	11	18°016	2°435	63878	17	23°488	3°184
9°450	24034	63575	18	13°186	25°478	63735	39	14°025	1°014	63807	31	18°128	2°706	63879	12	23°578	3°984
10°450	24034	63576	13	13°440	25°724	63736	32	14°607	1°416	63808	19	18°386	2°733	63880	13	24°085	3°686
11°884	24640	63577	15	13°532	25°480	63737	19	15°569	1°273	63809	10	18°540	2°274	63881	16	24°146	3°396
12°000	24938	63578	12	13°773	25°936	63738	16	16°057	1°532	63810	40	18°782	2°690	63882	24	24°334	3°409
12°150	24915	63579	43	14°493	25°934	63739	22	16°164	1°624	63811	28	18°940	2°826	63883	17	24°466	3°402
12°514	24440	63580	45	14°914	25°148	63740	16	16°816	1°462	63812	12	19°631	2°536	63884	24	24°800	3°334
13°102	24386	63581	16	15°485	25°242	63741	14	17°040	1°336	63813	13	20°304	2°834	63885	37	24°554	3°185
13°385	24866	63582	29	16°186	25°283	63742	12	17°044	1°831	63814	11	20°524	2°658	63886	18	24°636	3°268
14°025	24917	63583	18	16°324	25°714	63743	16	18°214	1°053	63815	40	20°702	2°485	63887	16	24°676	3°260
14°420	25515	63584	13	16°656	25°412	63744	13	18°510	1°492	63816	12	20°802	2°290	63888	35	0°762	4°972
15°546	24500	63585	27	16°681	25°120	63745	11	18°736	1°934	63817	24	20°844	2°555	63889	10	0°864	4°741
16°432	24679	63586	60	16°823	25°934	63746	14	19°530	1°579	63818	13	21°296	2°626	63890	13	0°884	4°088
17°193	24474	63587	29	17°160	25°505	63747	11	19°900	1°770	63819	34	21°332	2°256	63891	19	0°884	4°975
17°222	24663	63588	16	17°222	25°593	63748	15	21°564	1°165	63820	28	21°335	2°850	63892	36	1°366	4°552
17°545	24424	63589	17	17°545	25°790	63749	36	21°697	1°858	63821	15	21°464	2°346	63893	33	2°114	4°060
18°064	24288	63590	24	17°882	25°068	63750	13	21°894	1°888	63822	16	22°368	2°471	63894	15	2°696	4°350
18°722	24936	63591	19	17°884	25°702	63751	66	22°686	1°566	63823	32	22°930	2°554	63895	16	3°578	4°038
18°836	24050	63592	37	18°936	25°921	63752	14	22°968	1°822	63824	20	23°486	2°446	63896	19	4°305	4°652
17°196	24121	63593	16	19°392	25°328	63753	14	23°246	1°524	63825	32	23°862	2°036	63897	19	4°318	4°358
17°381	24340	63594	24	19°859	25°171	63754	14	23°834	1°374	63826	26	24°242	2°428	63898	48	4°334	4°677
18°220	24930	63595	12	19°971	25°068	63755	39	24°086	1°930	63827	14	24°516	2°265	63899	39	4°740	4°881
18°528	24806	63596	26	20°146	25°344	63756	30	24°158	1°504	63828	16	25°176	2°263	63900	12	5°020	4°396
18°614	24266	63597	38	20°707	25°168	63757	32	24°502	1°646	63829	10	25°732	2°256	63901	32	5°076	4°776
19°069	24116	63598	14	21°010	25°066	63758	18	24°640	1°554	63830	16	25°738	2°656	63902	22	5°204	4°592
19°170	24188	63599	19	21°196	25°461	63759	46	0°509	2°004	63831	14	0°036	3°512	63903	32	5°462	4°535
19°265	24370	63600	29	21°888	25°469	63760	17	0°541	2°216	63832	13	0°092	3°112	63904	16	5°874	4°356
20°365	24302	63601	30	23°008	25°960	63761	42	0°611	2°726	63833	16	0°156	3°998	63905	12	5°998	4°394
20°415	24650	63602	28	23°632	25°886	63762	20	0°855	2°988	63834	12	1°018	3°703	63906	19	7°508	4°534
20°760	24987	63603	43	24°775	25°115	63763	14	1°046	2°238	63835	24	2°185	3°334	63907	44	7°684	4°484
21°180	24394	63604	12	25°250	25°179	63764	27	1°706	2°014	63836	15	2°910	3°146	63908	14	8°502	4°996
21°800	24031	63605	42	25°938	25°367	63765	16	2°388	2°044	63837	14	2°998	3°298	63909	10	8°764	4°988
21°996	24792	63606	28	25°954	25°350	63766	18	4°545	2°544	63838	44	3°822	3°954	63910	10	10°125	4°767
23°312	24922					63767	13	4°722	2°104	63839	12	4°016	3°390	63911	13	10°206	4°446
23°756	24106					63768	14	4°826	2°587	63840	14	4°559	3°278	63912	24	10°207	4°718
24°150	24669					63769	11	7°144	2°936	63841	13	5°174	3°032	63913	16	10°504	4°400
25°272	24174					63770	23	7°150	2°452	63842	14	5°380	3°944	63914	11	10°632	4°377
25°598	24355					63771	15	7°177	2°064	63843	18	5°964	3°122	63915	12	10°714	4°574
0°141	25840					63772	14	7°188	2°305	63844	18	7°168	3°886	63916	12	12°178	4°744
0°320	25532					63773	12	8°114	2°952	63845	18	7°422	3°294	63917	23	12°185	4°670
0°990	25066					63774	14	8°718	2°535	63846	30	7°470	3°778	63918	19	12°674	4°074
1°326	25976					63775	15	8°803	2°674	63847							



63922	12	14° 8' 10"	4° 7' 28"	63994	10	14° 3' 00"	5° 0' 12"	64066	16	11° 0' 38"	6° 3' 65"	64138	16	12° 3' 26"	7° 1' 64"	64210	20	11° 1' 38"	8° 2' 84"
63923	22	15° 26'	4° 54' 8"	63995	10	14° 29'	5° 23' 6"	64067	13	11° 41'	6° 09' 6"	64139	23	12° 8' 88"	7° 35' 2"	64211	13	11° 35' 2"	8° 9' 84"
63924	17	15° 30' 8"	4° 03' 4"	63996	15	15° 29' 1"	5° 31' 4"	64068	13	11° 8' 36"	6° 8' 38"	64140	20	13° 3' 26"	7° 53' 8"	64212	9	11° 49' 4"	8° 31' 7"
63925	12	15° 31' 3"	4° 7' 27"	63997	21	15° 15' 17"	5° 05' 1"	64069	16	12° 05' 0"	6° 47' 8"	64141	14	13° 4' 66"	7° 62' 8"	64213	12	12° 11' 6"	8° 28' 1"
63926	19	15° 35' 8"	4° 06' 6"	63998	15	16° 06' 4"	5° 43' 4"	64070	14	12° 54' 6"	6° 58' 8"	64142	11	13° 75' 2"	7° 43' 4"	64214	9	12° 34' 4"	8° 99' 4"
63927	16	15° 37' 2"	4° 7' 66"	63999	10	16° 17' 2"	5° 23' 4"	64071	10	13° 12' 6"	6° 88' 1"	64143	10	14° 06' 4"	7° 39' 5"	64215	16	12° 40' 0"	8° 03' 2"
63928	19	15° 38' 9"	4° 08' 8"	64000	10	16° 39' 2"	5° 11' 6"	64072	16	13° 36' 4"	6° 96' 8"	64144	10	14° 11' 6"	7° 02' 6"	64216	19	12° 52' 6"	8° 86' 4"
63929	10	15° 75' 5"	4° 66' 4"	64001	10	16° 42' 8"	5° 61' 4"	64073	10	14° 46' 0"	6° 37' 6"	64145	16	14° 17' 6"	7° 86' 2"	64217	14	13° 07' 4"	8° 04' 8"
63930	13	16° 28' 3"	4° 34' 6"	64002	19	16° 62' 4"	5° 63' 4"	64074	12	15° 02' 6"	6° 15' 4"	64146	18	14° 28' 8"	7° 33' 4"	64218	11	13° 69' 3"	8° 94' 4"
63931	15	16° 35' 3"	4° 16' 8"	64003	21	16° 67' 5"	5° 08' 7"	64075	14	15° 33' 5"	6° 58' 6"	64147	14	14° 36' 8"	7° 04' 4"	64219	10	13° 96' 2"	8° 04' 7"
63932	12	16° 56' 5"	4° 22' 8"	64004	16	17° 05' 6"	5° 67' 6"	64076	15	15° 42' 0"	6° 57' 8"	64148	50	14° 68' 4"	7° 97' 4"	64220	15	14° 06' 0"	8° 24' 0"
63933	10	16° 84' 4"	4° 09' 7"	64005	14	17° 66' 4"	5° 64' 2"	64077	14	15° 88' 5"	6° 06' 4"	64149	10	14° 73' 0"	7° 39' 9"	64221	26	14° 16' 0"	8° 96' 7"
63934	13	16° 87' 5"	4° 06' 6"	64006	10	17° 80' 0"	5° 23' 2"	64078	13	16° 14' 2"	6° 44' 4"	64150	16	15° 33' 6"	7° 15' 4"	64222	8	14° 35' 0"	8° 67' 7"
63935	13	17° 49' 8"	4° 44' 2"	64007	14	17° 84' 4"	5° 59' 6"	64079	14	17° 00' 9"	6° 16' 6"	64151	13	15° 79' 5"	7° 55' 2"	64223	10	14° 37' 1"	8° 46' 7"
63936	26	17° 55' 1"	4° 54' 3"	64008	10	17° 87' 8"	5° 63' 8"	64080	28	17° 78' 2"	6° 79' 5"	64152	20	15° 83' 9"	7° 00' 0"	64224	10	14° 59' 6"	8° 19' 2"
63937	25	17° 63' 8"	4° 12' 4"	64009	18	18° 28' 6"	5° 84' 4"	64081	33	17° 78' 4"	6° 80' 0"	64153	12	15° 97' 8"	7° 26' 4"	64225	11	14° 76' 8"	8° 71' 4"
63938	12	18° 49' 8"	4° 80' 0"	64010	23	18° 36' 6"	5° 94' 7"	64082	10	18° 00' 7"	6° 46' 6"	64154	14	16° 16' 4"	7° 72' 4"	64226	12	14° 84' 8"	8° 51' 6"
63939	14	20° 28' 9"	4° 50' 0"	64011	13	18° 37' 5"	5° 53' 4"	64083	14	18° 45' 8"	6° 00' 4"	64155	32	16° 89' 8"	7° 79' 4"	64227	9	15° 03' 3"	8° 23' 4"
63940	19	20° 65' 6"	4° 89' 2"	64012	16	18° 54' 2"	5° 00' 3"	64084	16	18° 55' 0"	6° 58' 9"	64156	32	16° 89' 8"	7° 79' 4"	64228	10	15° 15' 3"	8° 59' 6"
63941	12	20° 76' 0"	4° 25' 2"	64013	12	19° 73' 6"	5° 34' 9"	64085	18	18° 84' 6"	6° 33' 4"	64157	10	17° 09' 4"	7° 22' 1"	64229	10	15° 15' 3"	8° 59' 6"
63942	12	21° 22' 1"	4° 48' 6"	64014	10	19° 66' 6"	5° 36' 4"	64086	22	19° 11' 4"	6° 88' 8"	64158	44	17° 10' 8"	7° 58' 8"	64230	9	15° 40' 6"	8° 32' 6"
63943	16	21° 35' 6"	4° 78' 4"	64015	10	20° 71' 6"	5° 68' 4"	64087	14	19° 54' 4"	6° 14' 6"	64159	49	17° 33' 6"	7° 58' 8"	64231	29	15° 86' 4"	8° 77' 6"
63944	20	21° 53' 1"	4° 91' 4"	64016	14	20° 83' 6"	5° 07' 8"	64088	18	19° 66' 7"	6° 56' 8"	64160	21	17° 76' 6"	7° 57' 5"	64232	24	15° 91' 4"	8° 78' 2"
63945	24	21° 90' 4"	4° 71' 6"	64017	38	21° 42' 5"	5° 81' 4"	64089	17	19° 89' 4"	6° 99' 6"	64161	12	18° 41' 8"	7° 16' 7"	64233	10	15° 92' 6"	8° 66' 5"
63946	10	22° 22' 2"	4° 30' 5"	64018	24	21° 84' 4"	5° 16' 7"	64090	28	20° 45' 3"	6° 77' 4"	64162	11	18° 42' 1"	7° 67' 2"	64234	13	15° 97' 0"	8° 35' 2"
63947	18	22° 93' 5"	4° 14' 6"	64019	10	21° 94' 6"	5° 68' 6"	64091	24	20° 87' 2"	6° 74' 6"	64163	14	19° 14' 4"	7° 85' 8"	64235	15	16° 15' 8"	8° 64' 9"
63948	16	22° 95' 4"	4° 25' 6"	64020	24	22° 18' 0"	5° 63' 3"	64092	12	20° 95' 0"	6° 04' 1"	64164	23	19° 19' 9"	7° 19' 9"	64236	16	16° 74' 2"	8° 09' 3"
63949	17	23° 00' 0"	4° 29' 4"	64021	15	22° 33' 2"	5° 74' 2"	64093	42	21° 04' 5"	6° 88' 6"	64165	24	19° 29' 4"	7° 85' 4"	64237	46	16° 97' 3"	8° 32' 4"
63950	14	23° 44' 4"	4° 05' 2"	64022	12	22° 34' 0"	5° 64' 2"	64094	14	21° 26' 6"	6° 08' 2"	64166	19	20° 17' 4"	7° 06' 4"	64238	11	17° 79' 6"	8° 14' 1"
63951	13	24° 61' 5"	4° 66' 4"	64023	11	22° 65' 6"	5° 61' 3"	64095	20	22° 04' 2"	6° 07' 4"	64167	10	20° 78' 6"	7° 17' 6"	64239	10	17° 86' 0"	8° 18' 1"
63952	36	24° 66' 6"	4° 78' 2"	64024	13	22° 99' 4"	5° 57' 6"	64096	13	22° 05' 2"	6° 09' 4"	64168	13	20° 49' 0"	7° 50' 4"	64240	19	17° 97' 4"	8° 27' 0"
63953	12	24° 83' 0"	4° 95' 4"	64025	15	23° 34' 4"	5° 72' 6"	64097	12	22° 08' 0"	6° 22' 0"	64169	18	20° 69' 4"	7° 78' 8"	64241	15	18° 18' 5"	8° 69' 4"
63954	39	25° 32' 6"	4° 14' 6"	64026	15	23° 73' 4"	5° 04' 3"	64098	39	24° 37' 4"	6° 69' 4"	64170	16	20° 81' 5"	7° 22' 4"	64242	12	18° 54' 0"	8° 51' 6"
63955	10	04° 36'	5° 57' 4"	64027	11	24° 09' 4"	5° 38' 7"	64099	12	25° 30' 0"	6° 67' 5"	64171	17	21° 47' 4"	7° 68' 6"	64243	19	18° 56' 6"	8° 58' 6"
63956	12	06° 39'	5° 53' 5"	64028	17	24° 26' 6"	5° 02' 6"	64100	23	25° 81' 0"	6° 66' 8"	64172	39	21° 53' 1"	7° 73' 2"	64244	17	18° 79' 6"	8° 53' 1"
63957	18	07° 54'	5° 02' 9"	64029	11	24° 60' 2"	5° 56' 6"	64101	14	25° 82' 8"	6° 46' 4"	64173	22	21° 82' 8"	7° 74' 4"	64245	13	18° 92' 7"	8° 07' 8"
63958	26	10° 36'	5° 19' 4"	64030	12	24° 71' 8"	5° 06' 6"	64102	19	25° 87' 0"	6° 87' 4"	64174	11	22° 43' 0"	7° 99' 4"	64246	16	18° 94' 4"	8° 41' 4"
63959	15	14° 88'	5° 57' 9"	64031	38	25° 04' 0"	5° 55' 7"	64103	16	0° 38' 8"	7° 27' 2"	64175	18	22° 54' 0"	7° 45' 2"	64247	18	19° 12' 5"	8° 63' 5"
63960	13	16° 67'	5° 96' 6"	64032	19	0° 16' 6"	7° 50' 0"	64104	10	0° 55' 2"	7° 08' 1"	64176	36	22° 69' 2"	7° 04' 0"	64248	12	19° 33' 2"	8° 54' 5"
63961	12	24° 74'	5° 96' 4"	64033	26	0° 42' 4"	6° 54' 0"	64105	12	0° 85' 6"	7° 68' 4"	64177	16	23° 23' 4"	7° 86' 6"	64249	17	19° 59' 6"	8° 78' 3"
63962	17	25' 31'	5° 35' 0"	64034	10	1° 09' 0"	6° 96' 6"	64106	10	1° 08' 4"	7° 78' 6"	64178	44	23° 52' 8"	7° 38' 6"	64250	13	19° 73' 2"	8° 97' 6"
63963	13	26' 29'	5° 20' 0"	64035	14	1° 45' 5"	6° 79' 8"	64107	15	1° 49' 3"	7° 99' 0"	64179	24	24° 46' 8"	7° 66' 4"	64251	10	19° 83' 4"	8° 97' 6"
63964	21	26' 80'	5° 26' 0"	64036	17	1° 45' 8"	6° 29' 6"	64108	22	1° 16' 6"	7° 49' 5"	64180	23	25° 72' 4"	7° 28' 8"	64252	13	19° 94' 4"	8° 39' 5"
63965	13	27° 65'	5° 46' 6"	64037	17	1° 48' 8"	6° 13' 4"	64109	14	2° 18' 1"	7° 63' 7"	64181	44	25° 92' 0"	7° 29' 1"	64253	10	20° 15' 6"	8° 20' 0"
63966	14	3° 54'	5° 47' 6"	64038	23	2° 18'	6° 65' 6"	64110	13	2° 49' 6"	7° 67' 6"	64182	11	0° 18' 0"	8° 64' 6"	64254	18	20° 37' 4"	8° 18' 4"
63967	20	4° 26' 6"	5° 30' 2"	64039	19	2° 52' 4"	6° 46' 8"	64111	12	2° 57' 1"	7° 63' 5"	64183	15	0° 68' 4"	8° 26' 4"	64255	13	20° 54' 8"	8° 49' 6"
63968	11	6° 28' 6"	5° 95' 4"	64040	22	2° 65' 3"	6° 35' 7"	64112	12	2° 65' 9"	7° 79' 8"	64184	14	1° 70' 6"	8° 44' 2"	64256	26	20° 61' 2"	8° 10' 2"
63969	25	6° 84' 6"	5° 68' 8"	64041	22	2° 83' 0"	6° 79' 4"	64113	24	2° 69' 1"	7° 83' 6"	64185	11	2° 18' 7"	8° 72' 4"	64257	10	20° 63' 9"	8° 45' 6"
63970	16	7° 18' 2"	5° 50' 2"	64042	32	3° 09' 5"	6° 30' 0"	64114	10	3° 38' 9"	7° 69' 9"	64186	16	2° 27' 5"	8° 02' 6"	64258	9	20° 60' 5"	8° 35' 0"
63971	10	7° 27' 4"	5° 43' 6"	64043	15	3° 20' 5"	6° 36' 6"	64115	16	3° 58' 8"	7° 97' 0"	64187	16	2° 39' 2"	8° 17' 4"	64259	18	20° 85' 0"	8° 24' 5"
63972	13	7° 39' 1"	5° 98' 2"	64044	18	3° 20' 0"	6° 04' 4"	64116	14	3° 86' 6"	7° 31' 4"	64188	14	2° 54' 0"	8° 10' 0"	64260	15	20° 89' 0"	8° 76' 0"
63973	12	7° 42' 6"	5° 89' 2"	64045	20	3° 88' 4"	6° 77' 1"	64117	13	4° 11' 0"	7° 22' 6"	64189	14	2° 90' 0"	8° 43' 0"	64261	12	21° 11' 8"	8° 38' 6"
63974	10	8° 74' 0"	5° 53' 4"	64046	64	4° 09' 0"	6° 54' 4"	64118	37	4° 44' 8"	7° 65' 6"	64190	10	3° 94' 0"	8° 70' 4"	64262	20	21° 36' 4"	8° 78' 4"
63975	24	8° 86' 4"	5° 57' 2"	64047	21	4° 17' 8"	6° 81' 0"	64119	18	4° 51' 6"	7° 00' 4"	64191	14	4° 66' 5"	8° 92' 4"	64263	15	21° 67' 6"	8° 89' 7"
63976	10	9° 66' 0"	5° 97' 4"	64048	12	4° 66' 4"	6° 25' 6"	64120	12	5° 70' 0"	7° 44' 6"	64192	11	4° 92' 6"	8° 94' 4"	64264	12</		

11-318	8-284	64282	20	0-695	9-806	64354	20	19-260	9-444	64426	10	17-935	10-476	64498	21	14-060	11-344	64570	9	9-626	12-614
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12-400	8-032	64287	16	2-164	9-068	64359	10	21-444	9-586	64431	19	18-814	10-524	64503	24	16-156	11-584	64575	10	10-618	12-045
12-526	8-864	64288	12	2-349	9-160	64360	60	21-785	9-823	64432	11	19-209	10-767	64504	11	16-480	11-534	64576	10	11-803	12-876
13-074	8-048	64289	12	2-388	9-762	64361	19	21-805	9-697	64433	19	19-290	10-476	64505	12	16-966	11-994	64577	12	12-076	12-248
13-093	8-944	64290	11	2-400	9-064	64362	26	22-035	9-745	64434	8	19-404	10-806	64506	13	17-198	11-946	64578	17	12-404	12-306
13-092	8-947	64291	16	2-446	9-324	64363	12	22-806	9-772	64435	13	19-780	10-438	64507	60	17-526	11-934	64579	14	12-973	12-500
14-000	8-240	64292	11	2-537	9-538	64364	24	23-055	9-624	64436	44	19-928	10-494	64508	13	17-854	11-604	64580	16	13-004	12-048
14-066	8-967	64293	24	2-606	9-582	64365	10	23-280	9-077	64437	16	20-444	10-028	64509	14	18-875	11-334	64581	15	13-866	12-066
14-350	8-677	64294	20	2-616	9-528	64366	14	23-569	9-926	64438	24	20-683	10-986	64510	13	19-014	11-975	64582	8	14-028	12-336
14-371	8-467	64295	18	2-724	9-904	64367	22	23-704	9-666	64439	16	20-744	10-120	64511	12	19-156	11-064	64583	19	14-104	12-446
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14-858	8-580	64299	14	3-334	9-696	64371	30	24-598	9-194	64443	24	22-648	10-467	64515	30	20-024	11-688	64587	37	15-383	12-317
15-033	8-234	64300	23	3-361	9-738	64372	15	0-117	10-303	64444	34	23-894	10-144	64516	9	20-125	11-464	64588	11	15-814	12-556
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15-400	8-126	64302	19	3-587	9-676	64374	16	0-808	10-944	64446	9	23-282	10-534	64518	11	21-100	11-426	64590	15	17-297	12-142
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16-352	8-352	64306	16	4-499	9-357	64378	18	1-309	10-920	64450	8	24-568	10-935	64522	10	22-042	11-240	64594	23	18-150	12-378
16-409	8-469	64307	9	5-346	9-414	64379	16	1-722	10-011	64451	22	24-656	10-274	64523	32	22-490	11-264	64595	12	18-200	12-326
16-903	8-903	64308	12	5-550	9-954	64380	42	1-766	10-914	64452	22	24-966	10-270	64524	16	22-435	11-814	64596	18	18-707	12-548
17-033	8-932	64309	11	6-178	9-538	64381	12	2-376	10-614	64453	34	25-042	10-917	64525	9	22-510	11-200	64597	11	19-066	12-062
17-296	8-796	64310	16	6-576	9-886	64382	20	2-423	10-315	64454	37	25-314	11-444	64526	37	22-923	11-496	64598	13	19-336	12-763
17-806	8-810	64311	19	6-646	9-992	64383	32	2-766	10-104	64455	12	1-036	11-881	64527	23	23-669	11-766	64599	20	19-348	12-816
17-974	8-270	64312	54	6-747	9-748	64384	19	3-232	10-014	64456	6	1-124	11-076	64528	22	24-536	11-562	64600	12	19-380	12-864
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18-760	8-531	64316	15	8-176	9-214	64388	18	4-834	10-108	64460	14	2-308	11-564	64532	12	0-124	12-635	64604	30	20-148	12-362
18-927	8-078	64317	20	8-990	9-854	64389	17	4-844	10-068	64461	16	2-535	11-692	64533	14	1-270	12-896	64605	8	20-406	12-882
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65793	15	20°962	24°798	65865	15	20°330	25°134

65866	30	20°544	25°353
65867	25	20°610	25°506
65868	16	20°610	25°365
65869	12	20°669	25°274
65870	16	20°704	25°979
65871	17	21°336	25°935
65872	23	21°885	25°108
65873	17	22°114	25°878
65874	19	22°590	25°515
65875	60	22°760	25°668
65876	38	22°934	25°190
65877	14	23°099	25°746

R.A. 18 <sup>h</sup> 24 <sup>m</sup>		
Plate 1816; 1921 May 10.		
Provisional Constants.		
A	B	C
-01753	+00911	-0844
D	E	F
-00902	-01780	+038
Mag. = 15.7 - 0.94√δ		

No.	d	x	y
65901	27	0°564	0°354
65902	18	0°650	0°854
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65904	12	1°846	0°984
65905	15	2°402	0°565
65906	10	3°272	0°704
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65908	27	7°827	0°196
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65913	15	16°751	0°966
65914	36	16°877	0°222
65915	15	19°350	0°132
65916	15	21°108	0°660
65917	10	21°936	0°449
65918	26	22°084	0°208
65919	30	25°961	0°208
65920	10	0°236	1°522
65921	10	0°458	1°550
65922	13	0°496	1°220
65923	15	1°793	1°276
65924	17	2°446	1°376
65925	25	4°392	1°360
65926	15	4°868	1°059
65927	20	5°440	1°210
65928	12	8°098	1°876
65929	15	8°169	1°420
65930	27	8°197	1°768
65931	18	8°496	1°879
65932	30	9°496	1°637
65933	17	11°350	1°130
65934	68	12°379	1°102
65935	18	13°990	1°160
65936	14	17°660	1°692

65937	27	19°280	1°926	66009	11	6°594	5°462
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65939	21	21°156	1°903	66011	22	6°950	5°998
65940	19	21°659	1°876	66012	40	7°630	5°794
65941	60	0°806	2°143	66013	33	8°539	5°667
65942	15	1°094	2°595	66014	15	9°456	5°900
65943	30	2°215	2°488	66015	13	15°212	5°180
65944	16	2°284	2°060	66016	24	15°348	5°322
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65946	20	2°632	2°200	66018	17	21°937	5°135
65947	11	2°768	2°104	66019	12	23°128	5°325
65948	11	4°386	2°963	66020	25	23°835	5°284
65949	11	4°486	2°800	66021	11	24°848	5°039
65950	11	5°141	2°294	66022	19	25°964	5°718
65951	15	5°551	2°088	66023	13	0°224	6°653
65952	14	6°084	2°452	66024	11	0°354	6°211
65953	30	8°526	2°058	66025	27	3°212	6°106
65954	29	8°670	2°668	66026	11	7°200	6°048
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65957	17	19°866	2°807	66029	63	9°632	6°000
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65960	34	22°080	2°186	66032	17	19°406	6°068
65961	12	22°280	2°680	66033	17	21°545	6°604
65962	24	22°624	2°834	66034	15	21°893	6°640
65963	10	24°324	2°060	66035	21	23°416	6°639
65964	11	24°410	2°329	66036	25	24°135	6°904
65965	20	25°346	2°617	66037	10	24°568	6°161
65966	19	1°068	3°126	66038	23	25°259	6°884
65967	10	1°634	3°746	66039	30	0°883	7°615
65968	13	1°986	3°008	66040	38	1°722	7°952
65969	14	2°484	3°964	66041	32	2°559	7°250
65970	15	2°628	3°887	66042	15	3°999	7°206
65971	27	2°700	3°938	66043	14	4°062	7°410
65972	11	2°786	3°068	66044	47	4°110	7°827
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65975	19	8°664	3°999	66047	11	8°294	7°942
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66000	13	22°026	4°913	66072	26	16°120	8°885
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66002	45	22°682	4°475	66074	13	20°194	8°350
66003	15	22°880	4°700	66075	14	22°980	8°664
66004	29	23°059	4°650	66076	47	24°686	8°164
66005	10	25°283	4°835	66077	18	0°648	9°289
66006	17	0°014	5°750	66078	25	0°695	9°264
66007	15	0°068	5°296	66079	10	1°227	9°358
66008	27	2°860	5°333	66080	20	2°815	9°744



[illegible]

66456	29	22°230	1°113	66528	30	9°436	3°989	66600	28	2°661	5°126	66672	15	17°110	6°146	66744	30	4°204	8°044
66457	23	22°392	1°855	66529	16	10°020	3°025	66601	26	3°558	5°074	66673	15	17°523	6°858	66745	12	4°636	8°627
66458	31	24°075	1°724	66530	25	11°046	3°852	66602	22	3°596	5°032	66674	18	17°806	6°284	66746	33	5°048	8°010
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66460	23	0°056	2°810	66532	14	11°324	3°408	66604	20	5°099	5°561	66676	10	18°531	6°200	66748	25	5°945	8°822
66461	22	0°217	2°495	66533	12	12°090	3°160	66605	11	5°526	5°454	66677	22	18°747	6°866	66749	30	5°984	8°570
66462	34	0°401	2°960	66534	13	12°148	3°908	66606	18	5°530	5°429	66678	19	19°788	6°800	66750	31	6°666	8°328
66463	19	0°445	2°500	66535	42	13°818	3°815	66607	21	6°164	5°236	66679	22	20°195	6°510	66751	37	7°360	8°942
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66465	28	2°183	2°426	66537	10	14°916	3°694	66609	15	6°778	5°566	66681	12	20°648	6°879	66753	12	8°204	8°836
66466	24	2°258	2°972	66538	34	15°114	3°492	66610	12	6°968	5°518	66682	28	21°244	6°028	66754	33	8°688	8°607
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66816	17	24 559	9 039	66888	29	1 482	12 184	66960	37	4 770	14 961	67032	26	23 714	15 472	67104	12	5 633	17 280
66817	25	24 760	9 215	66889	15	1 506	12 782	66961	19	5 070	14 518	67033	25	23 921	15 274	67105	29	5 706	17 778
66818	25	25 547	9 597	66890	24	2 696	12 419	66962	34	5 286	14 676	67034	19	24 252	15 949	67106	30	6 888	17 170
66819	28	0 064	10 184	66891	15	3 267	12 078	66963*	81	5 316	14 674	67035	26	24 736	15 984	67107	15	7 120	17 932
66820	21	0 576	10 270	66892	34	4 395	12 004	66964	12	11 256	14 132	67036	15	24 932	15 340	67108	11	7 844	17 556
66821	15	0 064	10 173	66893	16	6 048	12 506	66965	43	11 462	14 988	67037*	51	25 275	15 619	67109	10	8 556	17 462
66822	13	1 066	10 316	66894	12	6 596	12 106	66966	27	11 939	14 980	67038	23	25 462	15 918	67110	16	8 670	17 601
66823	19	2 118	10 296	66895	32	7 104	12 618	66967	33	12 331	14 705	67039	22	25 624	15 105	67111	27	9 322	17 264
66824	23	2 138	10 656	66896	23	7 454	12 150	66968	19	12 857	14 494	67040	14	0 169	16 374	67112	24	9 572	17 730
66825	12	2 739	10 373	66897	13	7 601	12 232	66969*	46	13 290	14 446	67041	32	0 245	16 452	67113	13	10 240	17 766
66826	14	3 236	10 150	66898	14	9 124	12 262	66970	20	14 562	14 340	67042*	44	1 090	16 797	67114	12	10 560	17 668
66827	19	3 585	10 854	66899	10	9 450	12 136	66971	11	14 774	14 956	67043	23	1 551	16 957	67115	11	11 462	17 554
66828	10	3 910	10 043	66900	20	16 080	12 554	66972	16	15 720	14 240	67044	20	1 755	16 746	67116	10	11 724	17 374
66829	32	4 970	10 092	66901	33	17 529	12 652	66973	25	16 868	14 940	67045	24	1 946	16 868	67117	19	12 947	17 884
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				67607	10	16°080	2°682	67679	13	24°176	4°383	67751	18	7°101	8°034	67823	12	13°744	11°434
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				67609	16	16°724	2°852	67681	28	25°986	4°343	67753*	38	10°150	8°274	67825	19	19°938	11°098
				67610	10	18°221	2°388	67682	32	0°232	5°955	67754	11	11°818	8°840	67826	18	20°088	11°100
				67611	11	21°440	2°674	67683	10	1°441	5°155	67755	24	13°862	8°071	67827	10	20°584	11°910
				67612	11	21°912	2°643	67684*	45	1°750	5°887	67756	10	13°920	8°880	67828	27	20°782	11°623
				67613	10	22°688	2°104	67685	13	2°526	5°731	67757	13	14°505	8°870	67829	23	21°710	11°800
				67614	11	22°754	2°343	67686	28	4°354	5°618	67758	15	14°690	8°879	67830	25	22°422	11°735
				67615	25	23°978	2°208	67687	10	4°513	5°575	67759	16	15°278	8°272	67831	23	22°996	11°810
				67616	14	24°540	2°577	67688	31	4°646	5°597	67760	16	15°327	8°642	67832	12	0°914	12°090
				67617	17	24°591	2°010	67689	12	5°165	5°229	67761	10	15°368	8°704	67833	16	1°674	12°600
				67618	28	25°260	2°570	67690*	41	5°550	5°833	67762	28	15°482	8°190	67834	13	4°124	12°374
				67619	11	1°900	3°172	67691	16	5°803	5°149	67763	31	20°220	8°894	67835	16	4°382	12°981
				67620	10	2°230	3°882	67692	10	8°150	5°662	67764	22	20°920	8°146	67836	10	8°498	12°806
				67621	12	2°480	3°152	67693	24	8°150	5°134	67765	12	0°725	9°646	67837	11	8°700	12°110
				67622	28	3°153	3°040	67694	11	8°392	5°544	67766	16	0°814	9°813	67838	14	8°914	12°024
				67623	14	4°615	3°554	67695	27	8°883	5°267	67767	17	0°886	9°758	67839	17	13°590	12°754
				67624	29	4°713	3°504	67696	14	9°199	5°050	67768	18	2°068	9°064	67840	23	16°338	12°668
				67625	21	5°066	3°056	67697	10	10°112	5°218	67769	12	2°836	9°312	67841	16	17°300	12°593
				67626	14	5°174	3°756	67698	10	10°586	5°054	67770	15	3°039	9°482	67842	19	21°820	12°852
				67627	27	5°806	3°790	67699	17	17°113	5°056	67771	14	3°833	9°856	67843	16	22°120	12°103
				67628	24	6°075	3°260	67700	10	18°399	5°380	67772	18	5°594	9°510	67844	15	22°889	12°587
				67629	33	7°030	3°024	67701	29	18°468	5°354	67773	27	8°743	9°470	67845	33	24°026	12°084
				67630	28	7°576	3°377	67702	12	18°848	5°432	67774	13	11°532	9°238	67846	30	24°638	12°590
				67631	14	7°674	3°818	67703	12	19°392	5°696	67775	16	11°722	9°870	67847	12	25°362	12°246
				67632	14	8°339	3°754	67704	15	21°454	5°060	67776	11	13°020	9°481	67848	25	25°621	12°474
				67633	11	9°266	3°325	67705	25	21°934	5°450	67777	11	14°330	9°080	67849	14	1°015	13°810
				67634	27	10°548	3°200	67706	10	22°340	5°430	67778	17	14°954	9°700	67850	13	1°022	13°415
				67635	27	10°884	3°150	67707	21	22°701	5°790	67779	10	16°884	9°422	67851	11	1°787	13°690
				67636	30	11°464	3°373	67708	18	22°850	5°230	67780	12	20°818	9°704	67852	10	1°851	13°870
				67637	18	12°774	3°796	67709	11	23°346	5°510	67781	15	21°960	9°734	67853*	42	2°945	13°838
				67638	13	12°801	3°923	67710	15	24°462	5°122	67782	12	22°320	9°250	67854	14	3°303	13°153
				67639	13	12°836	3°768	67711	11	0°626	6°512	67783	10	22°740	9°264	67855	11	3°560	13°742
				67640	10	13°521	3°202	67712	11	0°882	6°396	67784	15	24°739	9°204	67856	10	3°849	13°256
				67641	14	15°885	3°855	67713	13	1°017	6°550	67785	20	2°058	10°684	67857	13	4°507	13°729
				67642	14	16°060	3°480	67714	12	2°246	6°958	67786	14	2°934	10°904	67858	15	4°770	13°444
				67643*	41	16°510	3°663	67715	13	3°887	6°360	67787	22	4°768	10°710	67859	13	6°630	13°355
				67644	13	18°344	3°370	67716	17	4°114	6°256	67788	11	5°385	10°255	67860	12	6°644	13°730
				67645	14	18°588	3°637	67717	12	4°451	6°762	67789	12	6°474	10°796	67861	11	7°093	13°499
				67646	18	19°676	3°663	67718	10	5°626	6°122	67790	15	6°905	10°214	67862	27	7°556	13°860
				67647	32	19°894	3°794	67719	21	6°207	6°520	67791	19	7°385	10°344	67863	13	9°169	13°882
				67648	10	21°334	3°674	67720	12	6°650	6°276	67792	11	9°112	10°442	67864	17	9°571	13°410
				67649	10	21°790	3°020	67721	12	7°281	6°890	67793	10	9°263	10°890	67865	11	11°048	13°706
				67650	13	24°189	3°660	67722	28	8°052	6°974	67794	20	9°292	10°518	67866	10	12°590	13°926
				67651	10	1°153	4°834	67723	14	9°104	6°984	67795	15	10°076	10°960	67867	14	13°082	13°757
				67652*	31	3°280	4°039	67724*	36	9°835	6°322	67796*	44	10°223	10°960	67868	23	13°128	13°817
				67653	10	4°745	4°504	67725	13	10°780	6°664	67797	13	11°627	10°290	67869	10	13°405	13°934
				67654	26	4°936	4°460	67726	23	14°443	6°652	67798	10	11°911	10°710	67870*	33	14°215	13°070
				67655	16	5°106	4°900	67727	14	15°610	6°894	67799	14	12°350	10°752	67871	10	14°314	13°492
				67656	27	5°324	4°724	67728	14	15°672	6°440	67800	26	13°205	10°508	67872	19	14°397	13°550
				67657	15	7°280	4°012	67729	28	19°584	6°147	67801	14	13°764	10°425	67873	12	15°740	13°498
				67658	19	7°379	4°200	67730	13	20°595	6°280	67802	23	14°773	10°750	67874	14	15°842	13°164
				67659	14	7°050	4°600	67731	10	22°100	6°909	67803	14	16°220	10°218	67875	12	17°767	13°084
				67660	11	8°890	4°950	67732	13	22°940	6°760	67804	12	19°264	10°920	67876	11	18°275	13°308
				67661	16	9°250	4°726	67733	17	23°196	6°432								



67880	10	22.418	13.230	67952	14	3.125	16.250	68024	15	21.016	17.616	68096	13	16.585	20.732	68168	12	24.356	23.760
67881	10	23.660	13.764	67953	21	3.438	16.701	68025	27	22.870	17.771	68097	14	17.110	20.546	68169	46	25.284	23.548
67882	10	24.019	13.693	67954	22	3.518	16.718	68026	10	23.571	17.368	68098	14	17.700	20.386	68170	28	1.710	24.131
67883	11	24.418	13.876	67955	13	3.830	16.174	68027	21	23.587	17.700	68099	10	19.760	20.332	68171	27	3.324	24.220
67884	22	24.436	13.766	67956	10	4.521	16.866	68028	12	23.688	17.536	68100	10	20.659	20.778	68172	25	4.565	24.738
67885	12	24.444	13.971	67957	14	4.602	16.678	68029	10	23.900	17.402	68101	11	21.889	20.534	68173	22	4.950	24.024
67886	25	24.658	13.691	67958	10	5.052	16.411	68030	14	24.410	17.508	68102	15	23.227	20.726	68174	10	5.530	24.306
67887	14	25.095	13.120	67959	15	5.794	16.488	68031	11	25.826	17.278	68103	10	0.151	21.231	68175	12	5.632	24.869
67888	10	0.061	14.158	67960	14	5.922	16.194	68032	14	0.816	18.350	68104	15	1.314	21.806	68176	14	6.472	24.964
67889	11	0.802	14.802	67961	20	6.860	16.835	68033	14	0.914	18.967	68105	21	2.943	21.799	68177	14	6.490	24.775
67890	11	2.180	14.790	67962	10	7.740	16.409	68034	15	2.240	18.250	68106	18	6.088	21.631	68178	10	6.548	24.786
67891	16	3.560	14.910	67963	28	8.243	16.584	68035	14	5.509	18.496	68107	14	6.535	21.730	68179	11	9.254	24.793
67892	34	5.438	14.848	67964	27	11.110	16.842	68036*	70	5.535	18.700	68108*	57	6.581	21.741	68180	10	11.400	24.522
67893	13	6.378	14.150	67965	14	11.189	16.270	68037	10	6.841	18.936	68109*	32	7.343	21.132	68181	12	14.104	24.351
67894	16	6.580	14.676	67966	14	11.440	16.686	68038	15	10.204	18.110	68110	12	10.210	21.907	68182	11	14.420	24.311
67895	25	8.232	14.864	67967	12	11.660	16.594	68039	16	10.572	18.114	68111	15	11.120	21.070	68183	11	14.950	24.082
67896	11	9.187	14.794	67968	15	12.102	16.202	68040	10	10.574	18.600	68112	14	11.537	21.200	68184	19	16.440	24.870
67897	12	10.363	14.222	67969	12	13.000	16.300	68041	11	12.970	18.050	68113	10	11.724	21.860	68185	12	16.588	24.840
67898	29	11.601	14.327	67970	10	14.408	16.880	68042	13	13.264	18.858	68114	18	12.140	21.870	68186	11	18.458	24.540
67899	18	14.498	14.380	67971	15	15.002	16.854	68043	20	13.405	18.890	68115	12	12.598	21.925	68187	28	18.780	24.479
67900	14	15.530	14.860	67972	21	15.175	16.536	68044*	76	13.720	18.454	68116	16	14.641	21.110	68188	10	19.670	24.606
67901	19	16.893	14.727	67973	21	15.675	16.800	68045	14	16.306	18.941	68117	20	16.142	21.900	68189	22	21.090	24.130
67902	16	17.782	14.272	67974	18	15.908	16.456	68046	13	16.436	18.164	68118	18	17.205	21.670	68190	18	21.620	24.130
67903*	36	19.480	14.780	67975	11	16.200	16.544	68047	11	17.006	18.376	68119	12	17.749	21.210	68191	11	2.944	25.808
67904	15	20.620	14.910	67976	13	16.540	16.430	68048*	36	18.906	18.658	68120	28	20.910	21.806	68192	26	4.304	25.759
67905	14	22.744	14.160	67977	10	18.235	16.164	68049	13	20.868	18.654	68121	15	21.053	21.808	68193	13	4.550	25.944
67906	10	23.690	14.284	67978	10	18.240	16.106	68050	24	21.832	18.096	68122	11	24.668	21.447	68194	21	6.079	25.250
67907	10	23.712	14.192	67979	10	18.978	16.138	68051	27	23.098	18.823	68123	10	25.626	21.300	68195	26	6.284	25.786
67908	11	23.773	14.074	67980	10	19.888	16.848	68052	14	23.800	18.110	68124	26	0.328	22.612	68196	14	7.082	25.495
67909	10	23.922	14.400	67981	14	20.075	16.936	68053	13	25.689	18.439	68125	17	0.864	22.128	68197	39	7.999	25.730
67910	30	23.964	14.714	67982	10	20.872	16.365	68054	10	0.051	19.042	68126	11	4.350	22.140	68198	33	8.260	25.877
67911	11	24.536	14.060	67983	14	21.423	16.818	68055	12	0.110	19.221	68127	13	4.425	22.110	68199	19	9.746	25.210
67912	31	24.056	14.810	67984	31	22.282	16.610	68056	14	0.714	19.986	68128	10	5.594	22.340	68200	13	10.707	25.782
67913	18	25.414	14.636	67985	15	22.730	16.356	68057	10	4.741	19.036	68129	17	6.122	22.520	68201	15	12.000	25.110
67914	12	1.380	15.854	67986	22	22.816	16.596	68058	12	5.812	19.521	68130	19	9.650	22.721	68202	12	14.130	25.240
67915	15	2.076	15.752	67987	10	23.602	16.750	68059	12	6.695	19.628	68131	21	11.544	22.730	68203	28	14.260	25.630
67916	14	2.282	15.550	67988	27	24.150	16.175	68060	25	8.544	19.980	68132	31	11.622	22.890	68204	27	15.370	25.682
67917	16	2.800	15.240	67989	27	24.160	16.266	68061	10	10.609	19.742	68133	15	11.808	22.795	68205	19	15.500	25.450
67918	10	3.292	15.604	67990	12	24.456	16.675	68062	11	12.958	19.100	68134	10	12.671	22.923	68206	16	16.780	25.862
67919*	57	3.636	15.875	67991	10	25.306	16.904	68063	11	13.630	19.526	68135	27	12.980	22.434	68207	13	18.844	25.312
67920	14	3.980	15.359	67992	28	25.372	16.979	68064	14	14.328	19.516	68136	14	14.158	22.425	68208	10	19.844	25.660
67921	11	4.390	15.605	67993*	45	25.530	16.998	68065	10	15.404	19.107	68137	21	15.233	22.652	68209	10	24.980	25.557
67922	10	5.994	15.225	67994	19	0.000	17.768	68066	10	15.548	19.658	68138	42	16.082	22.862				
67923	16	6.397	15.800	67995	24	0.566	17.391	68067	11	19.042	19.945	68139	12	17.104	22.107				
67924	14	7.012	15.260	67996	28	0.675	17.520	68068	16	20.216	19.800	68140	13	19.038	22.101				
67925	14	10.156	15.785	67997	12	1.425	17.160	68069	15	20.254	19.806	68141	12	19.560	22.897				
67926	27	10.672	15.184	67998	10	1.921	17.580	68070	10	20.830	19.378	68142	10	20.418	22.160				
67927	13	10.802	15.126	67999	27	2.273	17.156	68071	10	21.350	19.202	68143	27	20.853	22.290				
67928	20	10.890	15.422	68000	35	2.506	17.190	68072	12	21.418	19.352	68144	27	23.398	22.036				
67929	30	12.010	15.916	68001	10	2.910	17.820	68073	11	22.878	19.736	68145	13	25.528	22.101				
67930	12	12.315	15.204	68002	43	3.205	17.896	68074	12	24.510	19.040	68146	15	1.592	23.910				
67931	28	12.830	15.280	68003	13	5.890	17.700	68075	23	24.737	19.550	68147	15	3.170	23.540				
67932	14	13.094	15.380	68004	14	7.880	17.456	68076	14	0.250	20.054	68148	10	3.578	23.740				
67933	21	15.006	15.361	68005	15	9.206	17.458	68077	11	0.314	20.157	68149	10	4.218	23.440				
67934	18	16.815	15.871	68006	11	9.700	17.852	68078	11	0.350	20.654	68150	10	4.540	23.376				
67935*	44	17.886	15.840	68007	11	10.140	17.870	68079	10	0.972	20.370	68151	12	4.620	23.704				
67936	17	18.024	15.640	68008	23	11.740	17.975	68080	11	1.510	20.865	68152	12	4.864	23.666				
67937	13	18.348	15.863	68009	13	12.652	17.777	68081	13	1.620	20.213	68153	14	5.270	23.506				
67938	11	18.540	15.212	68010	18	12.690	17.230	68082	10	1.890	20.550	68154	14	5.688	23.456				
67939	11	19.600	15.248	68011	20	13.180	17.017	68083	20	3.394	20.717	68155	18	6.304	23.398				
67940	15	20.238	15.822	68012	13	13.394	17.247	68084	13	4.258	20.461	68156	15	6.930	23.416				
67941	15	21.004	15.557	68013	15	13.946	17.904	68085	11	5.134	20.630	68157	14	7.054	23.494				
67942	18	21.504	15.310	68014	30	14.762	17.270	68086	11	5.342	20.769	68158	28	9.130	23.410				
67943	16	22.376	15.662	68015	14	15.156	17.357	68087	10	5.414	20.699	68159	12	10.727	23.679				
67944	10	23.491	15.720	68016*	62</														



68257	11	6-754	0-744	68329	13	12-720	2-552	68401	24	14-723	4-003	68473	20	19-710	6-352	68545	15	20-194	8-007
68258	8	7-418	0-229	68330	32	13-116	2-895	68402	14	14-971	4-277	68474	19	20-262	6-592	68546	9	20-419	8-890
68259	45	7-945	0-987	68331	14	13-210	2-012	68403	22	15-034	4-901	68475	22	20-642	6-402	68547	9	20-434	8-173
68260	19	8-954	0-954	68332	28	14-583	2-584	68404	15	15-202	4-570	68476	8	21-983	6-578	68548	10	21-234	8-386
68261	27	9-022	0-222	68333	39	14-600	2-890	68405	11	15-346	4-594	68477	18	22-814	6-620	68549	22	21-399	8-012
68262	12	9-468	0-166	68334	27	15-427	2-395	68406	13	15-516	4-556	68478	11	24-330	6-014	68550	8	22-218	8-512
68263	9	9-954	0-114	68335	25	15-458	2-651	68407	10	15-932	4-189	68479	19	24-582	6-282	68551	9	22-562	8-717
68264	14	10-706	0-700	68336	11	17-668	2-236	68408	17	16-566	4-496	68480	22	1-505	7-234	68552	11	22-750	8-882
68265	25	10-748	0-144	68337	11	17-786	2-911	68409	16	18-905	4-323	68481	10	4-491	7-174	68553	14	22-802	8-660
68266	52	12-062	0-074	68338	39	17-900	2-494	68410	10	19-325	4-042	68482	13	4-545	7-830	68554	26	25-338	8-070
68267	19	12-270	0-744	68339	42	18-866	2-203	68411	14	19-536	4-572	68483	32	4-638	7-288	68555	4	0-184	9-476
68268	10	14-876	0-442	68340	14	19-020	2-850	68412	15	21-777	4-253	68484	16	5-408	7-546	68556	8	0-602	9-478
68269	12	15-196	0-574	68341	19	20-598	2-321	68413	20	22-262	4-753	68485	43	5-746	7-607	68557	20	2-602	9-396
68270	20	15-624	0-359	68342	31	21-092	2-171	68414	10	22-440	4-064	68486	11	5-923	7-742	68558	11	3-805	9-076
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69727	10	3-447	12-218	69799	12	17-818	13-007	69871	10	19-972	15-626	69943	14	11-592	17-137	70015	13	25-294	18-428
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69745	10	15-219	12-490	69817	35	2-604	14-288	69889	10	0-190	16-200	69961	10	21-526	17-104	70033	12	8-066	19-736
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69757	43	21-054	12-772	69829	19	8-852	14-474	69901	39	10-562	16-028	69973	10	3-849	18-526	70045	30	19-773	19-334
69758	11	21-671	12-402	69830	10	9-914	14-640	69902	34	11-501	16-130	69974	10	4-414	18-872	70046	10	20-276	19-562
69759	10	22-446	12-908	69831	10	11-916	14-931	69903	37	12-328	16-351	69975	13	4					



R.A. 19 <sup>h</sup> 4 <sup>m</sup>															
Plate 1692; 1920 Oct. 2.															
Provisional Constants.															
A				B				C							
-01727				+02187				-3864							
D				E				F							
-02194				-01749				+4124							
Mag.=16.1-0.94√d															



70406	39	23.614	2.940	70478	17	8.274	6.263	70550	29	22.147	9.538	70622	22	22.783	13.483	70694	10	0.464	17.298
70407	15	23.687	2.698	70479	31	11.911	6.580	70551	15	23.314	9.374	70623	37	22.959	13.842	70695	13	1.876	17.696
70408	36	0.460	3.554	70480	47	13.748	6.674	70552	10	23.646	9.735	70624	12	23.440	13.957	70696	31	2.980	17.010
70409	27	1.016	3.622	70481	14	13.775	6.714	70553	37	24.694	9.470	70625	22	1.858	14.000	70697	23	5.166	17.284
70410	11	2.123	3.218	70482	19	14.057	6.802	70554	28	25.051	9.281	70626	10	4.930	14.499	70698	34	6.116	17.788
70411	20	6.079	3.752	70483	10	14.602	6.332	70555	10	1.636	10.584	70627	14	6.536	14.093	70699	19	10.911	17.707
70412	10	7.100	3.903	70484	12	15.918	6.236	70556	22	3.812	10.550	70628	13	11.588	14.282	70700	13	12.704	17.459
70413	18	9.432	3.483	70485	30	16.574	6.116	70557	10	5.200	10.815	70629	11	11.964	14.858	70701	33	13.768	17.018
70414	24	10.149	3.853	70486	18	17.469	6.006	70558	26	5.446	10.834	70630	15	12.342	14.212	70702	29	14.084	17.512
70415	33	10.886	3.106	70487	11	18.489	6.398	70559	51	5.616	10.342	70631	21	12.406	14.957	70703	12	14.420	17.187
70416	26	11.832	3.924	70488	22	19.624	6.746	70560	11	8.399	10.681	70632	29	15.535	14.465	70704	10	16.407	17.529
70417	190	11.965	3.273	70489	35	19.890	6.838	70561	25	9.747	10.909	70633	10	15.971	14.076	70705	12	17.014	17.822
70418	12	13.145	3.960	70490	10	20.534	6.536	70562	16	12.606	10.300	70634	26	16.615	14.691	70706	25	20.722	17.619
70419	29	13.988	3.500	70491	10	21.522	6.822	70563	22	12.930	10.896	70635	10	16.765	14.445	70707	12	21.668	17.792
70420	14	14.588	3.880	70492	26	22.145	6.391	70564	54	14.264	10.918	70636	17	16.828	14.734	70708	18	21.835	17.712
70421	21	15.166	3.144	70493	10	22.366	6.728	70565	11	16.582	10.754	70637	36	16.871	14.740	70709	10	21.941	17.368
70422	20	17.175	3.530	70494	40	22.400	6.144	70566	31	18.570	10.292	70638	10	17.002	14.506	70710	12	22.256	17.470
70423	53	18.110	3.966	70495	10	22.405	6.284	70567	14	19.032	10.242	70639	11	19.047	14.351	70711	16	23.456	17.586
70424	40	21.049	3.631	70496	14	22.787	6.779	70568	84	19.455	10.698	70640	36	20.733	14.629	70712	13	25.130	17.581
70425	20	21.026	3.918	70497	12	23.432	6.640	70569	20	20.138	10.671	70641	16	20.805	14.321	70713	10	25.336	17.296
70426	18	23.010	3.112	70498	25	23.528	6.486	70570	14	20.975	10.918	70642	20	22.098	14.118	70714	28	25.654	17.920
70427	14	24.584	3.036	70499	14	23.680	6.112	70571	17	24.058	10.285	70643	17	22.341	14.059	70715	32	1.596	18.354
70428	10	2.090	4.816	70500	12	0.700	7.224	70572	16	24.832	10.746	70644	6	23.287	14.048	70716	10	2.028	18.470
70429	29	3.404	4.707	70501	10	2.266	7.551	70573	42	25.675	10.341	70645	38	24.322	14.076	70717	25	3.458	18.268
70430	26	5.344	4.836	70502	17	3.528	7.220	70574	36	25.920	10.732	70646	11	24.602	14.481	70718	10	3.460	18.627
70431	35	6.178	4.129	70503	21	4.707	7.552	70575	12	0.514	11.736	70647	33	25.120	14.271	70719	12	3.503	18.652
70432	28	7.716	4.281	70504	11	5.660	7.749	70576	19	0.762	11.944	70648	12	0.320	15.624	70720	29	3.510	18.601
70433	10	8.776	4.641	70505	12	5.670	7.142	70577	11	0.821	11.332	70649	12	2.276	15.081	70721	10	5.254	18.866
70434	10	9.778	4.710	70506	18	6.451	7.596	70578	40	3.086	11.366	70650	12	2.308	15.957	70722	10	12.760	18.364
70435	37	10.804	4.333	70507	13	10.460	7.444	70579	10	3.899	11.118	70651	34	3.147	15.941	70723	41	18.650	18.376
70436	23	12.987	4.661	70508	39	11.911	7.086	70580	12	5.644	11.530	70652	14	4.605	15.413	70724	24	18.734	18.204
70437	25	13.994	4.264	70509	10	14.144	7.388	70581	10	5.772	11.874	70653	11	6.696	15.480	70725	10	19.190	18.448
70438	22	15.234	4.490	70510	30	16.886	7.132	70582	15	5.972	11.795	70654	12	6.778	15.558	70726	28	19.232	18.466
70439	10	15.402	4.551	70511	10	17.148	7.669	70583	12	5.972	11.600	70655	31	7.797	15.300	70727	26	21.212	18.129
70440	45	16.330	4.394	70512	24	17.535	7.478	70584	65	7.272	11.276	70656	19	9.496	15.232	70728	28	21.412	18.072
70441	10	18.229	4.322	70513	27	19.492	7.258	70585	24	8.174	11.016	70657	39	10.930	15.658	70729	33	23.366	18.897
70442	22	20.848	4.513	70514	10	20.390	7.040	70586	10	8.983	11.100	70658	11	11.478	15.672	70730	12	23.832	18.410
70443	41	21.464	4.418	70515	11	22.002	7.123	70587	22	9.731	11.092	70659	16	11.930	15.978	70731	28	24.053	18.266
70444	10	23.730	4.104	70516	34	22.060	7.354	70588	12	11.616	11.524	70660	16	11.940	15.584	70732	13	0.116	19.078
70445	14	24.055	4.870	70517	33	24.118	7.231	70589	29	15.146	11.803	70661	11	14.080	15.728	70733	15	0.131	19.584
70446	24	24.614	4.688	70518	17	0.547	7.787	70590	36	16.313	11.053	70662	31	16.818	15.468	70734	10	0.708	19.616
70447	12	24.606	4.688	70519	17	0.547	8.239	70591	27	17.139	11.940	70663	35	17.838	15.885	70735	32	0.851	19.512
70448	36	1.838	5.384	70520	14	3.260	8.446	70592	32	17.476	11.458	70664	10	17.968	15.700	70736	10	3.675	19.715
70449	21	1.996	5.704	70521	10	3.504	8.782	70593	18	18.941	11.570	70665	23	18.559	15.974	70737	30	4.795	19.666
70450	17	2.278	5.880	70522	57	4.492	8.138	70594	34	19.059	11.548	70666	12	20.102	15.283	70738	37	5.432	19.919
70451	26	3.094	5.251	70523	10	5.886	8.804	70595	10	21.630	11.480	70667	11	20.924	15.262	70739	20	6.027	19.594
70452	39	3.494	5.147	70524	35	5.887	8.471	70596	17	25.360	11.380	70668	23	22.300	15.580	70740	41	7.334	19.248
70453	44	6.518	5.984	70525	12	7.136	8.036	70597	11	25.958	11.402	70669	23	22.808	15.166	70741	12	7.360	19.560
70454	33	7.494	5.875	70526	20	7.268	8.022	70598	30	3.932	12.708	70670	23	22.838	15.112	70742	16	8.289	19.512
70455	45	8.922	5.917	70527	13	7.929	8.810	70599	40	7.782	12.374	70671	37	23.801	15.618	70743	24	9.852	19.091
70456	17	13.580	5.845	70528	27	10.049	8.675	70600	30	13.761	12.550	70672	37	24.086	15.420	70744	46	11.474	19.265
70457	26	14.764	5.656	70529	28	10.800	8.840	70601	27	18.430	12.374	70673	12	24.902	15.009	70745	24	13.688	19.868
70458	40	15.026	5.460	70530	62	11.795	8.453	70602	25	21.937	12.025	70674	50	25.245	15.614	70746	12	14.361	19.158
70459	10	15.180	5.148	70531	21	12.495	8.746	70603	34	21.521	12.148	70675	12	25.898	15.239	70747	25	18.922	19.098
70460	27	16.254	5.264	70532	10	13.458	8.511	70604	12	25.070	12.476	70676	15	3.715	16.250	70748	21	20.174	19.154
70461	12	16.599	5.529	70533	10	16.591	8.732	70605	15	0.986	13.758	70677	10	4.608	16.809	70749	28	20.536	19.647
70462	23	17.150	5.867	70534	12	17.110	8.012	70606	15	1.987	13.627	70678	13	5.455	16.708	70750	45	22.698	19.154
70463	19	18.460	5.319	70535	15	18.851	8.554	70607	21	4.730	13.934	70679	19	5.596	16.987	70751	10	23.002	19.721
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R.A. 19 <sup>h</sup> 12 <sup>m</sup>										Plate 1722; 1920 Nov. 1.									
Provisional Constants.										A B C -0.7150 -0.1020 -0.3884									
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71469	10	22:896	15:986	71541	16	18:115	17:010	71613	27	12:380	19:208	71685	43	21:936	21:773	71757	14	17:720	24:462
71470	26	23:116	15:920	71542	12	18:779	17:339	71614	22	13:325	19:562	71686	51	24:680	21:400	71758	10	18:306	24:307
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71472	57	24:233	15:440	71544	23	19:408	17:872	71616	10	16:140	19:800	71688	11	2:041	22:631	71760	25	20:970	24:720
71473	18	24:326	15:885	71545	16	20:152	17:866	71617	23	16:360	19:912	71689	39	2:664	22:882	71761	12	22:727	24:488
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71481	21	3:734	16:640	71553	13	25:321	17:289	71625	31	1:110	20:753	71697	11	14:166	22:594	71769	42	2:296	25:594
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71486	10	5:530	16:854	71558	21	1:818	18:274	71630	18	4:591	20:840	71702	12	15:189	22:733	71774	31	5:574	25:573
71487	10	5:736	16:577	71559	26	2:042	18:060	71631	10	4:922	20:022	71703	12	16:986	22:852	71775	17	7:104	25:628
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71491	12	9:346	16:698	71563	49	6:560	18:876	71635	10	10:140	20:708	71707	20	20:807	22:788	71779	37	8:836	25:442
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71493	10	10:112	16:152	71565	13	8:168	18:368	71637	21	11:913	20:350	71709	12	22:030	22:256	71781	10	9:908	25:568
71494	17	10:478	16:572	71566	11	8:982	18:142	71638	26	12:594	20:307	71710	22	22:569	22:650	71782	10	11:393	25:410
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71497	19	11:588	16:876	71569	21	11:716	18:482	71641	10	13:582	20:880	71713	12	25:062	22:154	71785	22	13:390	25:274
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71501	51	15:385	16:396	71573	16	14:970	18:666	71645	11	14:591	20:076	71717	33	3:780	23:708	71789	10	15:861	25:202
71502	20	16:727	16:568	71574	13	15:454	18:654	71646	30	14:740	20:343	71718	10	6:502	23:200	71790	40	17:408	25:181
71503	13	16:968	16:975	71575	10	15:525	18:780	71647	44	19:374	20:192	71719	10	6:667	23:130	71791	17	18:533	25:203
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71506	11	17:478	16:479	71578	10	16:952	18:965	71650	12	20:976	20:628	71722	37	9:698	23:064	71794	13	19:830	25:860
71507	42	18:562	16:110	71579	15	17:478	18:710	71651	13	21:133	20:712	71723	10	11:408	23:142	71795	20	20:194	25:389
71508	18	18:750	16:094	71580	19	17:642	18:994	71652	29	21:257	20:240	71724	29	11:540	23:985	71796	25	20:570	25:349
71509	13	19:672	16:522	71581	18	19:057	18:573	71653	28	21:880	20:093	71725	10	11:750	23:860	71797	12	21:486	25:692
71510	14	20:257	16:823	71582	23	19:982	18:875	71654	10	22:396	20:039	71726	21	12:922	23:662	71798	20	21:530	25:236
71511	15	20:611	16:906	71583	14	20:421	18:516	71655	14	22:402	20:668	71727	25	16:478	23:602	71799	11	23:758	25:492
71512	11	21:050	16:867	71584	10	21:910	18:640	71656	24	24:157	20:884	71728	26	17:052	23:720	71800	21	24:628	25:584
71513	13	24:299	16:614	71585	10	24:030	18:044	71657	11	0:116	21:680	71729	20	17:514	23:832				
71514	16	24:850	16:568	71586	22	25:280	18:330	71658	84	0:744	21:250	71730	15	18:024	23:874				
71515	11	25:972	16:295	71587	13	25:250	18:897	71659	22	2:434	21:855	71731	24	19:807	23:650				
71516	20	0:240	17:330	71588	29	25:618	18:712	71660	23	3:435	21:623	71732	14	23:436	23:255				
71517	22	1:442	17:446	71589	48	0:684	19:016	71661	11	4:013	21:330	71733	10	24:402	23:482				
71518	14	1:992	17:502	71590	17	0:994	19:583	71662	31	4:506	21:398	71734	12	25:718	23:166				
71519	15	3:118	17:438	71591	24	2:422	19:600	71663	12	5:082	21:371	71735	10	25:896	23:692				
71520	10	3:324	17:151	71592	18	2:657	19:832	71664	20	7:758	21:296	71736	40	0:246	24:360				
71521	14	3:610	17:954	71593	17	2:827	19:326	71665	12	8:062	21:212	71737	30	2:082	24:086				
71522	26	3:640	17:777	71594	22	2:924	19:001	71666	20	9:300	21:864	71738	21	2:788					

R.A. 19<sup>h</sup> 20<sup>m</sup>

Plate 1690 ; 1920 July 19.

Provisional Constants.

A

B

C

—01769 +01000 —0361

D

E

F

—01012 —01759 +1465

Mag.=15.7—0.94√*d*

No.	<i>d</i>	<i>x</i>	<i>y</i>	
71801	28	1.966	0.261	
71802	28	2.274	0.230	
71803	30	4.014	0.609	
71804	11	4.016	0.641	
71805	10	4.352	0.641	
71806 <sub>43</sub>	43	4.652	0.813	
71807	16	6.245	0.275	
71808	21	8.145	0.765	
71809	18	11.108	0.068	
71810	12	11.385	0.697	
71811	14	12.910	0.821	
71812	24	13.150	0.073	
71813	10	15.112	0.044	
71814	10	15.576	0.972	
71815	18	15.931	0.540	
71816 <sub>36</sub>	36	17.694	0.066	
71817	15	18.026	0.616	
71818	17	19.986	0.350	
71819	18	20.036	0.972	
71820	14	20.866	0.315	
71821	19	21.818	0.996	
71822	13	21.982	0.120	
71823	10	22.734	0.590	
71824	18	25.198	0.462	
71825	38	1.500	1.032	
71826	15	1.944	1.327	
71827	30	2.023	1.190	
71828	21	2.338	1.440	
71829	10	2.362	1.196	
71830	10	3.701	1.639	
71831	11	3.776	1.738	71903 <sub>36</sub>
71832	13	4.086	1.326	71904
71833	17	4.384	1.319	71905
71834	18	4.940	1.914	71906
71835	18	5.218	1.536	71907
71836	13	5.936	1.744	71908
71837	24	6.594	1.662	71909
71838	28	8.392	1.086	71910
71839	16	8.866	1.871	71911
71840	41	9.342	1.702	71912
71841	12	10.052	1.348	71913
71842	19	10.408	1.930	71914
71843	12	12.738	1.304	71915
71844	35	12.773	1.537	71916
71845	10	13.576	1.490	71917
71846	12	13.576	1.287	71918
71847	11	14.822	1.350	71919
71848	18	17.222	1.087	71920
71849	14	18.226	1.280	71921
71850	19	19.006	1.530	71922
71851	12	19.782	1.490	71923
71852	18	20.318	1.081	71924
71853	11	20.740	1.674	71925
71854	23	22.479	1.928	71926
71855	22	23.568	1.422	71927

24.892	1.406	71928	20	18.700	4.538	72000	18	1.356	7.942	72072	18	2.212	10.488
24.088	2.857	71929	21	18.974	4.734	72001	31	5.653	7.073	72073	10	2.284	10.638
10.163	2.244	71930	31	19.276	4.964	72002	18	6.288	7.155	72074	32	2.902	10.602
15.72	2.258	71931	24	19.426	4.280	72003	12	9.500	7.118	72075	30	2.985	10.778
10.854	2.950	71932	26	19.736	4.860	72004	18	9.676	7.788	72076	18	3.020	10.640
24.2052	2.841	71933	12	20.792	4.267	72005	17	10.224	7.808	72077	33	3.354	10.310
24.366	3.491	71934	11	23.595	4.113	72006	17	11.364	7.804	72078	19	5.523	10.019
11.2400	2.820	71935	13	23.696	4.752	72007	10	11.470	7.026	72079	19	6.378	10.086
5.387	2.402	71936	11	24.216	4.107	72008	10	11.662	7.280	72080	10	6.890	10.387
12.974	2.832	71937	32	0.266	5.372	72009	22	15.419	7.978	72081	14	8.050	10.348
6.182	2.542	71938	11	2.206	5.252	72010	21	16.718	7.096	72082	10	8.565	10.070
9.216	2.942	71939	18	2.292	5.576	72011	10	16.771	7.458	72083	18	8.568	10.390
18.9534	2.285	71940	31	2.492	5.581	72012	10	17.527	7.134	72084	19	8.718	10.543
11.1130	2.708	71941	11	3.415	5.149	72013	20	18.095	7.849	72085	16	9.734	10.382
11.1813	2.174	71942	14	4.045	5.715	72014	12	20.219	7.856	72086	18	12.672	10.641
11.3122	2.274	71943	12	4.575	5.620	72015	10	20.656	7.799	72087	30	13.098	10.502
11.1926	2.450	71944	20	7.300	5.294	72016	12	21.720	7.466	72088	11	15.002	10.667
11.1926	2.450	71944	20	7.300	5.294	72017 <sub>18</sub>	47	23.197	7.340	72089	11	15.502	10.818
12.522	2.544	71945	14	11.682	5.092	72018	12	25.534	7.294	72090 <sub>36</sub>	60	16.020	10.712
17.15336	2.542	71946	11	13.864	5.151	72019	38	0.656	8.612	72091	13	17.027	10.665
15.5798	3.356	71947	10	13.951	5.488	72020	10	2.030	8.474	72092	14	18.100	10.617
16.037	0.209	71948	24	14.008	5.966	72020	10	3.986	8.350	72093	31	18.260	10.345
17.062	0.287	71949	15	14.207	5.052	72021	35	0.434	8.334	72094	12	18.366	10.880
16.920	0.326	71950	14	14.734	5.431	72022	10	0.096	8.022	72095	13	20.000	10.284
17.757	0.990	71951	26	14.962	5.852	72023	18	5.436	8.008	72096	13	22.094	10.829
18.548	8.855	71952	10	16.480	5.564	72024	32	8.834	8.784	72097	20	22.666	10.971
18.847	6.613	71953	31	17.141	5.166	72025	14	0.996	8.313	72098	18	23.223	10.030
19.228	2.920	71954	21	17.545	5.502	72026	11	10.335	8.580	72099	18	23.596	10.916
19.290	2.153	71955	23	17.845	5.828	72027	18	13.818	8.484	72100	19	23.676	10.360
20.764	2.210	71956	12	17.960	5.819	72028	13	14.606	8.854	72101	10	0.688	11.832
22.673	2.574	71957 <sub>42</sub>	42	18.461	5.096	72029	11	17.166	8.678	72102	13	2.301	11.418
25.159	2.240	71958	24	18.874	5.930	72030	11	17.166	8.678	72103	13	2.360	11.162
17.0882	3.783	71959	10	24.522	5.643	72031	15	17.394	8.571	72103	13	3.672	11.846
18.20	3.126	71960	12	24.840	5.472	72032	20	18.797	8.257	72104	14	3.612	11.047
3.682	3.628	71961	19	1.492	6.407	72033	10	19.633	8.077	72105	13	7.820	11.786
3.229	7.1962	71962	14	1.508	6.705	72034	20	20.316	8.949	72106	10	8.476	11.052
6.702	3.068	71963	23	2.178	6.732	72035	13	20.900	8.240	72107	11	8.572	11.852
7.399	3.870	71964	14	2.428	6.558	72036	21	22.592	8.058	72108	12	8.772	11.022
7.744	3.923	71965	31	3.031	6.738	72037	16	22.658	8.572	72109	14	8.704	11.588
8.734	3.952	71966	11	3.525	6.422	72038	18	23.128	8.914	72110	13	9.932	11.952
14.109	3.762	71967 <sub>38</sub>	38	5.240	6.266	72039	13	23.926	8.420	72111	18	9.203	11.462
14.246	3.900	71968	14	5.714	6.264	72040	18	24.411	8.256	72112	21	10.120	11.226
14.918	3.534	71969	14	6.110	6.341	72041	27	0.044	9.998	72113	14	12.234	11.884
16.299	3.850	71970	34	6.505	6.698	72042	13	2.448	9.580	72114	11	13.096	11.309
16.450	3.912	71971	34	6.792	6.028	72043	18	2.642	9.392	72115	14	13.298	11.542
16.485	3.866	71972	12	7.280	6.766	72044	25	2.663	9.986	72116	37	14.946	11.469
18.717	3.378	71973	27	8.140	7.900	72045	35	2.670	9.277	72117	17	15.748	11.610
19.130	3.862	71974	12	8.183	8.877	72046	11	3.402	9.341	72118	11	15.787	11.794
20.076	3.226	71975	38	8.760	8.087	72047	17	4.308	9.118	72119	21	16.979	11.764
20.152	3.379	71976	11	8.842	8.852	72048	31	5.092	9.282	72120	10	19.350	11.612
20.476	3.612	71977	19	9.561	9.486	72049	28	5.300	9.870	72121	21	19.653	11.460
21.177	3.662	71978	24	9.572	9.342	72050	11	5.327	9.791	72122	19	20.801	11.056
23.612	3.342	71979	31	10.780	9.696	72051	17	5.478	9.854	72123	17	22.267	11.385
24.473	3.862	71980	30	11.488	9.482	72052	10	5.652	9.803	72124	15	23.410	11.695
1.850	4.528	71981	21	11.864	9.635	72053	14	7.427	9.991	72125	31	23.726	11.366
2.512	4.778	71982	23	14.010	9.778	72054	18	8.494	9.398	72126	38	24.731	11.054
4.063	4.267	71983 <sub>62</sub>	62	14.236	9.216	72055	18	8.848	9.776	72127	26	0.090	12.215
5.900	4.700	71984	23	15.260	8.854	72056	11	9.133	9.333	72128	15	0.669	12.502
7.824	4.676	71985	11	15.327	8.812	72057	21	9.231	9.576	72129	14	2.168	12.738
8.063	4.710	71986	34	17.490	6.138	72058	24	10.236	9.209	72130	16	3.308	12.860
8.504	4.602	71987	19	19.698	6.493	72059	11	11.890	9.572	72131	16	6.200	12.606
9.703	4.951	71988	31	19.783	6.551	72060	28	12.154	9.938	72132	11	3.212	12.150
9.810	4.550	71989	26	20.155	6.696	72061	78	13.294	9.794	72133	14	3.394	12.693
10.888	4.340	71990	16	21.664	6.430	72062	14	14.890	9.794	72134	19	3.688	12.937
13.314	4.350	71991	10	22.072	6.383	72063	12	15.676	9.305	72135	18	4.352	12.952
13.930	4.284	71992	27	22.183	6.232	72064	12	16.386	9.068	72136	16	6.340	12.606
13.999	4.388	71993	12	22.873	6.696	72065	13	17.380	8.808	72137	29	6.666	12.154
14.536	4.463	71994	10	23.729	6.938	72066	19	17.498	9.358	72138	11	6.798	12.720
16.289	4.266	71995	12										



212	10-488	72144*	97	13-835	12-480	72216	35	14-926	15-926	72288	10	20-571	18-187	72360	17	5-322	22-754	72432	15	0-176	25-842
281	10-638	72145	20	14-642	12-960	72217	16	15-494	15-049	72289	11	24-104	18-640	72361	16	5-618	22-176	72433	13	1-364	25-078
302	10-602	72146	14	15-532	12-916	72218	26	16-522	15-120	72290	15	24-722	18-161	72362	26	6-096	22-781	72434	13	1-506	25-413
385	10-778	72147	15	17-508	12-624	72219	18	17-510	15-329	72291	13	24-932	18-288	72363	14	7-437	22-756	72435	26	4-126	25-306
420	10-640	72148	14	24-738	12-700	72220	19	17-913	15-672	72292	17	25-397	18-122	72364	45	8-642	22-427	72436	28	4-738	25-878
533	10-310	72149	12	25-374	12-532	72221	11	18-980	15-630	72293	17	1-472	19-062	72365	12	8-747	22-658	72437	29	7-860	25-244
565	10-019	72150	15	0-465	15-598	72222	11	22-186	15-619	72294	15	4-085	19-452	72366	25	9-070	22-484	72438	11	8-592	25-232
578	10-686	72151	17	0-750	15-874	72223	12	22-190	15-336	72295	24	4-180	19-267	72367	39	9-170	22-150	72439	13	9-720	25-185
849	10-387	72152	17	2-172	13-940	72224	24	22-436	15-740	72296*	45	4-299	19-760	72368	14	9-640	22-954	72440	13	11-014	25-550
950	10-348	72153	40	3-842	13-706	72225	14	23-617	15-436	72297	13	7-494	19-572	72369	20	10-260	22-782	72441	15	11-503	25-100
965	10-070	72154	18	5-760	13-190	72226	10	23-895	15-221	72298	12	8-400	19-551	72370	13	10-397	22-794	72442	16	12-890	25-308
978	10-390	72155	15	6-620	13-225	72227	13	24-266	15-588	72299	15	10-095	19-776	72371	23	10-679	22-646	72443	13	14-316	25-676
984	10-718	72156	33	7-313	13-638	72228	37	24-875	15-167	72300	23	14-096	19-438	72372	13	11-441	22-078	72444	23	14-397	25-168
994	10-382	72157	14	7-432	13-612	72229	15	25-072	15-125	72301	32	15-547	19-647	72373	12	13-279	22-333	72445	20	15-542	25-328
1004	10-641	72158	30	10-240	13-640	72230	19	1-641	16-508	72302	16	15-747	19-606	72374	12	14-037	22-212	72446	18	16-129	25-516
1008	10-502	72159	11	13-253	13-068	72231	32	2-492	16-132	72303	12	17-104	19-212	72375	14	15-198	22-197	72447	12	17-556	25-030
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1018	10-188	72161	33	18-178	13-680	72233	15	2-851	16-458	72305	15	17-778	19-949	72377	18	18-686	22-641	72449	28	19-649	25-274
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1032	10-348	72163	10	20-065	13-098	72235	14	4-066	16-361	72307	18	19-099	19-866	72379	16	22-524	22-740	72451	18	22-755	25-310
1047	10-745	72164	10	20-442	13-413	72236	11	4-756	16-290	72308	14	20-782	19-018	72380	10	24-090	22-167	72452	15	24-795	25-780
1054	10-889	72165	19	22-284	13-492	72237	12	4-955	16-893	72309	23	23-600	19-474	72381	24	24-419	22-901	72453	12	24-983	25-961
1058	10-889	72166	12	23-330	13-364	72238	34	6-056	16-886	72310	24	24-614	19-032	72382	18	25-380	22-950				
1062	10-829	72167	35	23-418	13-391	72239	12	7-716	16-163	72311	24	0-460	20-698	72383	20	21-183	23-242				
1067	10-971	72168	11	23-600	13-578	72240	17	8-143	16-272	72312	39	2-928	20-165	72384	12	1-507	23-420				
1070	10-030	72169	23	23-767	13-158	72241	11	16-462	16-738	72313	18	6-194	20-540	72385	11	2-061	23-838				
1076	10-916	72170	27	23-898	13-837	72242	10	17-513	16-581	72314	11	6-854	20-810	72386	13	4-337	23-719				
1080	10-369	72171	28	24-156	13-630	72243	30	17-600	16-820	72315	10	7-386	20-117	72387	13	5-522	23-220				
1083	10-916	72172	13	24-298	13-481	72244	20	17-843	16-112	72316	14	9-723	20-620	72388	18	6-894	23-080				
1088	10-812	72173	10	24-421	13-055	72245*	42	18-784	16-930	72317	13	10-158	20-949	72389	12	8-546	23-214				
1092	10-438	72174	27	24-630	13-002	72246	10	19-590	16-450	72318	12	10-227	20-128	72390	43	9-132	23-226				
1097	10-162	72175	16	24-966	13-916	72247	18	22-356	16-442	72319	34	11-590	20-700	72391	32	9-535	23-600				
1101	10-047	72176	13	0-476	13-848	72248	13	22-892	16-448	72320	29	12-067	20-949	72392	26	9-850	23-518				
1107	10-846	72177	14	2-223	14-176	72249	26	22-950	16-735	72321*	64	12-204	20-430	72393	30	10-716	23-415				
1110	10-786	72178	30	2-748	14-230	72250	13	24-945	16-074	72322	10	13-257	20-466	72394	38	10-788	23-872				
1114	10-402	72179	10	2-936	14-108	72251	10	25-753	16-964	72323	16	13-863	20-640	72395	10	13-741	23-209				
1118	10-852	72180	12	3-338	14-122	72252	19	2-158	17-788	72324	34	13-972	20-660	72396	14	13-764	23-620				
1122	10-088	72181	29	4-300	14-674	72253	10	2-234	17-954	72325	15	14-620	20-738	72397	19	14-117	23-196				
1126	10-552	72182	18	5-223	14-831	72254	16	2-760	17-599	72326	21	15-172	20-120	72398	11	16-980	23-338				
1130	10-462	72183	20	5-570	14-440	72255	11	2-836	17-186	72327	10	16-858	20-103	72399	12	17-629	23-386				
1134	10-226	72184	18	6-574	14-400	72256	13	3-386	17-132	72328	10	17-778	20-500	72400	16	18-249	23-906				
1138	10-884	72185	13	8-213	14-233	72257	12	3-866	17-847	72329	13	21-656	20-011	72401	17	20-110	23-318				
1142	10-309	72186	12	8-320	14-660	72258	20	7-598	17-403	72330	12	21-728	20-328	72402	10	20-512	23-946				
1146	10-549	72187	12	10-838	14-394	72259	26	7-893	17-716	72331	12	21-940	20-992	72403	27	22-961	23-823				
1150	10-462	72188	11	12-886	14-352	72260	12	8-201	17-636	72332	18	22-094	20-382	72404	22	23-343	24-580				
1154	10-610	72189*	49	13-832	14-412	72261	17	9-160	17-172	72333	25	22-657	20-393	72405	16	2-742	24-924				
1158	10-794	72190	10	14-713	14-778	72262	12	9-330	17-873	72334	16	23-334	20-626	72406	10	4-424	24-727				
1162	10-704	72191	13	16-265	14-631	72263	10	9-653	17-257	72335	16	24-758	20-779	72407	18	4-754	24-199				
1166	10-612	72192	31	16-717	14-928	72264	13	9-902	17-954	72336	12	0-992	21-263	72408	24	5-052	24-518				
1170	10-460	72193	14	16-900	14-964	72265	24	16-082	17-313	72337	22	2-748	21-457	72409	25	9-252	24-450				
1174	10-056	72194	16	17-830	14-232	72266	14	16-574	17-720	72338	42	3-273	21-968	72410	29	10-045	24-342				
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1182	10-306	72196	12	18-412	14-374	72268	10	23-390	17-842	72340	18	5-846	21-662	72412	15	10-545	24-142				
1186	10-549	72197	12	18-690	14-063	72269	27	24-470	17-982	72341	44	8-324	21-820	72413	38	10-690	24-821				
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1198	10-502	72200	11	23-917	14-957	72272	39	6-598	18-524	72344*	50	11-882	21-108	72416	27	11-602	24-807				
1202	10-738	72201	12	23-988	14-123	72273	16	8-100	18-419	72345	12	12-021	21-808	72417	15	11-953	24-970				
1206	10-860	72202*	44	24-342	14-890	72274*	44	9-292	18-958	72346	29	13-862	21-090	72418	10	12-178	24-190				
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72527	10	14°408	1°060	72599	18	4°130	5°677	72671	13	4°469	8°052	72743	15	25°586	10°720	72815	20	6°880	14°682
72528	10	16°600	1°822	72600	25	4°360	5°470	72672	14	4°634	8°599	72744	13	25°928	10°740	72816	16	11°086	14°644
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72531	15	20°231	1°828	72603	10	5°644	5°209	72675	15	7°570	8°642	72747	49	2°175	11°000	72819	13	12°840	14°478
72532	52	22°560	1°364	72604	17	6°201	5°918	72676	14	8°126	8°264	72748	54	5°020	11°700	72820	33	13°116	14°330
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72538	13	5°394	2°170	72610	12	20°646	5°072	72682	9	16°222	8°570	72754	10	9°917	11°627	72826	69	22°076	14°700
72539	11	6°115	2°770	72611	25	21°457	5°190	72683	12	16°486	8°350	72755	24	9°943	11°330	72827	27	22°519	14°670
72540	29	7°908	2°634	72612	14	22°440	5°866	72684	10	17°134	8°019	72756	10	11°888	11°044	72828	17	23°573	14°612
72541	48	11°480	2°584	72613	12	23°960	5°866	72685	29	19°080	8°578	72757	13	13°312	11°530	72829	10	1°080	15°465
72542	50	13°412	2°717	72614	18	24°110	5°861	72686	10	20°216	8°198	72758	13	16°304	11°852	72830	10	1°360	15°248
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72546	11	16°570	2°124	72618	25	28°244	6°175	72690	13	26°061	9°668	72762	20	19°348	11°157	72834	13	2°558	15°140
72547	13	17°594	2°602	72619	149	29°062	6°866	72691	107	26°900	9°778	72763	12	20°216	11°376	72835	71	9°542	15°182
72548	70	17°782	2°267	72620	10	30°062	6°860	72692	26	27°670	9°760	72764	14	23°054	11°877	72836	15	9°609	15°366
72549	18	18°536	2°075	72621	72	31°048	6°770	72693	11	28°116	9°886	72765	27	24°355	11°754	72837	14	10°252	15°537
72550	18	18°788	2°075	72622	14	32°062	6°546	72694	25	29°062	9°549	72766	28	25°755	11°552	72838	14	10°624	15°246
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72556	20	1°590	3°928	72628	10	38°062	5°952	72700	13	35°062	9°012	72772	26	31°999	13°134	72844	14	18°944	15°809
72557	9	1°852	3°672	72629	23	39°062	5°852	72701	13	36°062	8°862	72773	12	32°999	13°398	72845	22	23°348	15°000
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72559	10	3°800	3°998	72631	17	41°062	5°652	72703	22	38°062	8°562	72775	34	34°999	13°926	72847	29	26°730	16°199
72560	32	3°280	3°472	72632	47	42°062	5°552	72704	10	39°062	8°412	72776	16	35°999	14°190	72848	12	27°920	16°544
72561	10	4°274	3°288	72633	24	43°062	5°452	72705	10	40°062	8°262	72777	16	36°999	14°454	72849	20	29°110	16°799
72562	14	4°658	3°324	72634	37	44°062	5°352	72706	10	41°062	8°112	72778	16	37°999	14°718	72850	24	30°300	16°114
72563	72	5°207	3°637	72635	68	45°062	5°252	72707	10	42°062	7°962	72779	16	38°999	14°982	72851	12	31°490	16°469
72564	27	11°424	3°995	72636	10	46°062	5°152	72708	10	43°062	7°812	72780	16	39°999	15°246	72852	27	32°680	16°880
72565	40	12°440	3°300	72637	22	47°062	5°052	72709	10	44°062	7°662	72781	16	40°999	15°510	72853	27	33°870	17°137
72566	27	13°460	3°045	72638	22	48°062	4°952	72710	10	45°062	7°512	72782	16	41°999	15°774	72854	26	35°060	17°417
72567	14	14°480	2°790	72639	18	49°062	4°852	72711	10	46°062	7°362	72783	16	42°999	16°038	72855	26	36°250	17°697
72568	10	15°500	2°535	72640	12	50°062	4°752	72712	10	47°062	7°212	72784	16	43°999	16°302	72856	26	37°440	17°977
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72570	10	17°540	2°025	72642	18	52°062	4°552	72714	10	49°062	6°912	72786	16	45°999	16°830	72858	26	39°820	18°537
72571	14	18°560	1°770	72643	12	53°062	4°452	72715	10	50°062	6°762	72787	16	46°999	17°094	72859	26	41°010	18°817
72572	13	19°580	1°515	72644	9	54°062	4°352	72716	10	51°062	6°612	72788	16	47°999	17°358	72860	26	42°200	19°097
72573	10	20°600	1°260	72645	9	55°062	4°252	72717	10	52°062	6°462	72789	16	48°999	17°622	72861	26	43°390	19°377
72574	44	21°620	1°005	72646	12	56°062	4°152	72718	10	53°062	6°312	72790	16	49°999	17°886	72862	26	44°580	19°657
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72576	10	23°660	0°495	72648	10	58°062	3°952	72720	10	55°062	6°012	72792	16	51°999	18°414	72864	26	46°960	20°217
72577	42	24°680	0°240	72649	12	59°062	3°852	72721	10	56°062	5°862	72793	16	52°999	18°678	72865	26	48°150	20°497
72578	18	25°700	0°000	72650	21	60°062	3°752	72722	10	57°062	5°712	72794	16	53°999	18°942	72866	26	49°340	20°777
72579	14	26°720	0°000	72651	10	61°062	3°652	72723	10	58°062	5°562	72795	16	54°999	19°206	72867	26	50°530	21°057
72580	8	27°740	0°000	72652	30	62°062	3°552	72724	10	59°062	5°412	72796	16	55°999	19°470	72868	26	51°720	21°337
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72582	28	29°780	0°000	72654	17	64°062	3°352	72726	10	61°062	5°112	72798	16	57°999	19°998	72870	26	54°100	21°897
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74002	14	6-963	6-135	74074	13	25-284	10-914	74146	10	19-079	16-372	74218	12	10-902	21-105	74290	30	25-136	25-074
74003	25	9-302	6-427	74075	12	25-868	10-273	74147	14	22-052	16-074	74219	14	11-063	21-556	74291	24	25-409	25-278
74004	17	10-840	6-096	74076	13	1-262	11-730	74148	10	23-819	16-142	74220	15	12-845	21-500				
74005	25	12-270	6-996	74077	15	4-370	11-666	74149	11	24-455	16-248	74221	10	13-640	21-136				
74006	12	12-760	6-671	74078	15	10-512	11-924	74150	13	24-807	16-614	74222	12	14-231	21-534				
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74011	16	19-406	6-368	74083	30	18-057	11-856	74155	10	6-965	17-070	74227	11	22-107	21-786				
74012	14	19-790	6-630	74084	10	20-292	11-083	74156	38	7-672	17-272	74228	21	0-618	22-437				
74013	31	22-966	6-485	74085	10	23-250	11-299	74157	10	8-930	17-484	74229	10	4-030	22-053				
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74015	27	0-830	7-708	74087	16	1-710	12-130	74159*	33	13-778	17-766	74231	37	7-872	22-121				
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74018	23	7-637	7-925	74090	34	7-347	12-033	74162	33	13-208	17-469	74234	14	14-803	22-742				
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74022	10	12-278	7-890	74094*	62	6-198	13-528	74166	11	21-707	17-257	74238	10	19-586	22-019				
74023	10	14-526	7-390	74095	12	9-669	13-152	74167	12	1-048	18-310	74239	10	23-432	22-090				
74024*	45	20-181	7-805	74096	10	10-320	13-528	74168	16	7-700	18-178	74240	36	25-724	22-586				
74025	12	20-986	7-824	74097	9	11-574	13-819	74169	16	9-382	18-752	74241	24	2-220	23-125				
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74029	26	5-176	8-360	74101	32	21-341	13-356	74173	16	19-160	18-030	74245	12	4-953	23-481				
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74031	22	7-815	8-750	74103	19	25-190	13-992	74175	32	20-170	18-831	74247	14	6-604	23-265				
74032	27	8-024	8-846	74104	31	3-778	14-356	74176	32	20-920	18-848	74248	18	6-604	23-265				
74033	31	9-578	8-816	74105	13	6-252	14-106	74177	32	21-291	18-636	74249	18	9-376	23-490				
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74038	35	21-550	8-326	74110	10	17-930	14-875	74182	27	4-599	19-338	74254	45	0-271	24-168				
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74041	13	23-872	8-407	74113	10	20-326	14-359	74185	27	7-055	19-367	74257	9	3-617	24-048				
74042	29	25-320	8-456	74114	12	21-444	14-092	74186	10	9-905	19-882	74258	17	4-408	24-428				
74043	31	2-946	9-078	74115	36	0-537	15-334	74187	29	10-128	19-405	74259	40	5-354	24-656				
74044*	72	3-390	9-641	74116	24	0-683	15-270	74188	20	16-180	19-104	74260	53	6-335	24-778				
74045	22	3-579	9-584	74117	30	1-073	15-776	74189	40	17-235	19-614	74261	22	7-170	24-216				
74046	15	5-138	9-317	74118	13	2-642	15-996	74190*	10	17-706	19-761	74262	22	8-776	24-764				
74047	30	6-755	9-070	74119	12	4-318	15-004	74191	10	20-406	19-262	74263	34	9-666	24-274				
74048	12	6-863	9-288	74120	34	7-919	15-233	74192	11	23-926	19-287	74264	12	11-486	24-770				
74049	13	10-356	9-113	74121	38	8-888	15-480	74193	12	25-168	19-836	74265	60	13-891	24-320				
74050	19	12-160	9-948	74122	10	9-508	15-674	74194	17	5-336	20-760	74266	21	12-439	24-566				
74051*	33	13-342	9-519	74123	24	11-132	15-732	74195	10	9-815	20-664	74267	25	14-364	24-590				
74052	16	23-928	9-260	74124	10	15-284	15-047	74196	31	10-964	20-086	74268	30	14-996	24-720				
74053	14	1-953	10-317	74125	10	15-690	15-252	74197	13	13-890	20-074	74269	28	16-170	24-186				
74054	12	2-046	10-153	74126	10	19-620	15-524	74198	18	14-920	20-910	74270	12	16-279	24-022				
74055	10	3-290	10-134	74127	12	19-759	15-180	74199	35	14-958	20-586	74271	16	19-070	24-424				
74056	34	3-831	10-253	74128	10	24-346	15-650	74200	19	17-766	20-822	74272	36	19-588	24-008				
74057*	38	5-928	10-960	74129	20	24-730	15-368	74201	19	20-466	20-687	74273	34	21-302	24-057				



74335	14	0°544	2°760	74407	10	23°294	5°236	74479*	56	6°070	9°946	74551	18	14°462	12°052	74623	13	6°261	16°166
74336	29	4°840	2°920	74408	14	23°450	5°739	74480*	23	10°437	9°086	74552	24	15°840	12°026	74624	31	7°932	16°984
74337	13	5°520	2°248	74409	16	23°880	5°872	74481	29	10°660	9°270	74553	34	16°081	12°104	74625	12	7°940	16°976
74338	10	6°702	2°438	74410*	62	24°482	5°010	74482	23	11°866	9°894	74554	13	16°088	12°190	74626	14	11°442	16°684
74339	30	7°408	2°054	74411	32	0°430	6°510	74483	10	15°404	9°406	74555	21	16°310	12°152	74627	13	11°706	16°662
74340	10	8°200	2°648	74412	16	3°554	6°050	74484	10	16°920	9°590	74556	15	16°630	12°392	74628	18	11°724	16°901
74341	46	8°448	2°804	74413	16	3°744	6°318	74485	10	17°312	9°976	74557	18	18°230	12°936	74629	15	11°894	16°994
74342	14	10°728	2°104	74414	41	4°133	6°184	74486*	70	21°500	9°420	74558	16	19°952	12°238	74630	12	13°442	16°220
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74344	13	12°124	2°240	74416	19	11°070	6°066	74488	29	22°578	9°634	74560	12	0°350	13°734	74632	17	14°110	16°793
74345	10	14°630	2°175	74417	16	11°970	6°965	74489	26	22°720	9°860	74561	14	1°024	13°706	74633	32	17°418	16°370
74346	12	14°864	2°034	74418	10	12°408	6°184	74490	10	23°500	9°034	74562	37	1°024	13°606	74634	47	18°028	16°556
74347	24	15°230	2°274	74419	20	13°070	6°349	74491	11	0°536	10°453	74563	10	2°933	13°060	74635	41	18°323	16°604
74348	25	18°715	2°952	74420	13	13°078	6°234	74492	14	1°100	10°294	74564	10	4°112	13°024	74636	32	18°918	16°823
74349*	62	19°398	2°260	74421	42	14°905	6°954	74493	27	1°855	10°011	74565	10	6°846	13°888	74637	30	23°186	16°467
74350	17	19°524	2°304	74422	16	17°600	6°550	74494	13	3°150	10°640	74566	21	11°450	13°960	74638	27	23°522	16°100
74351	10	23°335	2°902	74423	10	22°444	6°252	74495	14	6°036	10°462	74567	16	12°335	13°586	74639	12	24°146	16°690
74352*	37	0°774	3°548	74424	36	0°885	7°239	74496	8	6°090	10°333	74568	12	12°784	13°666	74640	20	24°646	16°446
74353	23	5°124	3°356	74425	26	1°634	7°142	74497	10	6°148	10°314	74569	15	13°218	13°390	74641	11	1°071	17°976
74354	10	5°353	3°322	74426	14	2°357	7°617	74498	11	6°224	10°640	74570	17	14°095	13°606	74642	16	2°256	17°208
74355	21	5°676	3°725	74427	12	2°754	7°108	74499	24	6°646	10°038	74571	26	17°119	13°923	74643	27	2°756	17°364
74356	30	6°581	3°566	74428	17	3°368	7°706	74500	26	7°542	10°596	74572	27	17°709	13°700	74644	12	3°848	17°412
74357	25	8°568	3°441	74429	14	3°466	7°389	74501	20	8°290	10°192	74573	15	17°862	13°515	74645	27	4°328	17°652
74358	11	9°516	3°956	74430	15	3°810	7°864	74502	10	8°641	10°820	74574*	48	18°480	13°020	74646	38	5°334	17°280
74359	9	10°844	3°430	74431	12	5°140	7°052	74503	28	10°151	10°800	74575	15	19°803	13°861	74647	36	5°876	17°382
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74362	12	12°453	3°124	74434	11	5°810	7°723	74506	14	13°547	10°150	74578	19	2°812	14°199	74650	29	7°623	17°345
74363	12	12°457	3°150	74435	18	6°238	7°382	74507	16	17°110	10°950	74579	11	2°830	14°868	74651	10	8°666	17°890
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74365	14	14°699	3°276	74437	22	7°650	7°946	74509	11	21°144	10°784	74581	11	3°440	14°220	74653	23	10°830	17°441
74366	13	14°880	3°580	74438	13	8°670	7°230	74510*	53	21°670	10°520	74582	28	4°790	11°893	74654	32	13°118	17°191
74367	13	16°134	3°622	74439	35	9°476	7°120	74511	20	22°716	10°122	74583	16	5°172	14°640	74655	14	15°269	17°958
74368	21	17°710	3°509	74440	14	10°080	7°694	74512	16	0°106	11°160	74584	15	6°456	14°831	74656	27	16°671	17°380
74369	33	18°712	3°328	74441	11	12°360	7°663	74513	26	0°147	11°320	74585	30	6°571	14°285	74657	29	18°467	17°440
74370	12	18°731	3°036	74442	13	12°522	7°160	74514	25	1°402	11°646	74586	32	7°868	14°570	74658	25	19°124	17°872
74371	26	21°488	3°944	74443	15	12°604	7°999	74515	29	1°640	11°260	74587	26	8°494	14°920	74659	15	19°705	17°227
74372	20	22°228	3°106	74444	10	14°908	7°656	74516	27	2°280	11°230	74588	13	9°014	14°727	74660	25	20°629	17°180
74373	18	23°297	3°077	74445	25	15°638	7°507	74517	19	2°681	11°740	74589	29	9°994	14°181	74661	33	21°114	17°923
74374	12	23°906	3°175	74446	16	16°678	7°064	74518	34	2°968	11°385	74590	29	16°042	14°728	74662	10	21°640	17°096
74375	12	24°801	3°415	74447	24	18°752	7°807	74519	24	3°216	11°660	74591*	69	16°139	14°825	74663*	66	22°800	17°050
74376	10	25°934	3°588	74448	33	20°764	7°494	74520	10	3°380	11°490	74592	11	17°245	14°298	74664	36	24°254	17°496
74377	22	0°784	4°925	74449	9	21°454	7°632	74521	16	3°800	11°020	74593	27	18°340	14°792	74665	32	24°530	17°230
74378	31	1°756	4°445	74450	13	22°738	7°474	74522	15	4°524	11°934	74594	14	24°548	14°573	74666	32	5°782	18°500
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74380	16	7°126	4°676	74452	10	20°600	8°800	74524	28	4°868	11°180	74596	9	3°226	15°338	74668	15	9°464	18°937
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74383	16	11°126	4°977	74455	10	5°343	8°602	74527	16	6°316	11°998	74599	10	5°475	15°276	74671	10	12°024	18°578
74384	26	13°055	4°527	74456	27	7°160	8°000	74528	32	8°120	11°490	74600*	34	7°094	15°386	74672	10	12°187	18°114
74385	29	13°624	4°440	74457	15	7°676	8°252	74529	10	8°509	11°758	74601	10	7°724	15°823	74673	16	13°084	18°970
74386	9	18°934	4°661	74458	11	8°972	8°760	74530	12	8°550	11°200	74602	41	9°320	15°806	74674	14	13°526	18°776
74387	9	19°166	4°090	74459	9	11°638	8°718	74531	15	9°056	11°048	74603	24	9°477	15°725	74675*	59	14°404	18°702
74388	14	21°240	4°426	74460	12	14°245	8°293	74532	14	10°014	11°259	74604	9	10°382	15°292	74676	12	14°916	18°210
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74391	27	0°256	5°915	74463	15	18°409	8°807	74535	16	12°576	11°824	74607	10	12°078	15°341	74679	36	15°937	18°372
74392	10	2°280	5°917	74464	16	18°580	8°183	74536	25	13°765	11°512	74608	14	13°370	15°380	74680*	111	17°444	18°230
74393	18	3°258	5°100	74465	29	20°562	8°186	74537	25	14°798	11°129	74609	28	17°444	15°888	74681	34	17°866	18°538
74394	16	3°460	5°020	74466	32	20°884	8°774	74538	13	19°027	11°999	74610	15	18°226	15°770	74682	19	19°430	18°950
74395	10	4°195	5°490	74467	31	21°525	8°163	74539	13	21°022	11°545	74611	11	18°685	15°822	74683	15	19°955	18°174
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74397	27	6°313	5°626	74469	10	23°230	8°056	74541	39	22°672	11°2								



74695	9	6-600	19-059	74767	11	7-730	22-385	74839	15	1-044	25-796	74924	20	6-378	2-832	74996	16	19-508	6-576
74696	17	6-812	19-110	74768	9	8-050	22-306	74840	38	3-111	25-823	74925	13	7-193	2-515	74997	12	20-623	6-786
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74698	14	7-930	19-714	74770	17	11-838	22-286	74842	35	6-574	25-484	74927	20	8-442	2-798	74999	20	22-490	6-618
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74701	40	13-545	19-704	74773	11	14-167	22-164	74845	15	9-370	25-601	74930	13	9-596	2-316	75002	10	4-328	7-690
74702	16	14-172	19-154	74774	19	14-220	22-807	74846	28	9-529	25-836	74931	14	9-746	2-662	75003	15	5-751	7-077
74703	14	15-452	19-244	74775	11	14-976	22-182	74847	15	10-160	25-110	74932	16	9-972	2-525	75004	11	6-259	7-096
74704	11	16-100	19-240	74776	26	15-105	22-303	74848	24	12-545	25-334	74933	18	10-400	2-288	75005	12	7-710	7-987
74705	29	16-388	19-630	74777	10	15-300	22-280	74849	12	12-840	25-775	74934	20	10-680	2-204	75006	16	7-885	7-880
74706	32	18-369	19-171	74778	10	15-626	22-303	74850	13	13-935	25-540	74935	14	10-968	2-825	75007	13	9-354	7-400
74707	16	19-893	19-056	74779	10	16-836	22-767	74851	12	14-332	25-752	74936	20	11-602	2-635	75008	15	10-964	7-305
74708	13	21-597	19-643	74780	10	17-161	22-630	74852	17	14-376	25-096	74937	18	11-820	2-472	75009	15	11-540	7-516
74709	31	23-010	19-310	74781	19	17-392	22-142	74853	18	14-863	25-552	74938	29	17-410	2-036	75010	14	12-328	7-556
74710	14	24-246	19-862	74782	15	17-828	22-802	74854	33	18-524	25-556	74939	26	19-161	2-374	75011	20	13-390	7-702
74711	31	1-060	20-935	74783	14	17-835	22-300	74855	17	18-608	25-440	74940	28	20-583	2-330	75012	12	13-976	7-574
74712	18	1-880	20-036	74784	12	18-318	22-190	74856	56	20-005	25-612	74941	13	21-583	2-148	75013	13	14-109	7-905
74713	30	3-124	20-584	74785	21	20-002	22-069	74857	25	20-046	25-450	74942	23	22-096	2-270	75014	12	14-605	7-918
74714	13	3-418	20-573	74786	37	23-898	22-714	74858	19	20-430	25-638	74943	15	23-786	2-581	75015	11	14-914	7-954
74715	25	3-451	20-912	74787	33	3-332	23-816	74859	25	20-814	25-636	74944	23	3-788	3-805	75016	18	16-725	7-398
74716	18	4-200	20-396	74788	33	3-686	23-334	74860	9	23-158	25-292	74945	12	1-969	3-748	75017	29	17-445	7-294
74717	14	4-683	20-173	74789	46	4-010	23-042	74861	12	23-884	25-062	74946	15	2-656	3-753	75018	32	19-255	7-560
74718	13	4-802	20-848	74790	27	4-425	23-154	74862	9	25-478	25-600	74947	12	3-823	3-827	75019	22	20-688	7-930
74719	18	5-209	20-582	74791	27	5-475	23-625	74863	44			74948	10	5-410	3-290	75020	20	21-028	7-045
74720	10	5-524	20-560	74792	16	5-978	23-384					74949	12	7-190	3-350	75021	20	24-272	7-030
74721	20	5-670	20-934	74793	22	6-304	23-710					74950	22	7-190	3-350	75022	35	24-453	7-461
74722	20	5-756	20-006	74794	27	7-130	23-495					74951	14	7-190	3-350	75023	40	25-533	7-964
74723	34	7-156	20-696	74795	19	8-030	23-780					74952	25	12-965	3-196	75024	4	0-856	8-161
74724	45	9-288	20-094	74796	25	13-226	23-056					74953	14	13-954	3-530	75025	13	2-126	8-814
74725	17	12-768	20-916	74797	15	13-962	23-834					74954	22	13-846	3-254	75026	28	2-410	8-142
74726	9	14-042	20-678	74798	15	14-216	23-645					74955	40	14-472	3-256	75027	12	3-124	8-075
74727	32	16-634	20-564	74799	10	14-723	23-022					74956	22	16-560	3-728	75028	12	4-648	8-080
74728	13	16-879	20-380	74800	49	16-250	23-028					74957	17	25-242	3-820	75029	22	9-192	8-636
74729	11	17-420	20-031	74801	19	16-458	23-604					74958	40	25-630	3-220	75030	24	10-078	8-835
74730	13	18-176	20-527	74802	11	16-970	23-262					74959	10	25-630	3-220	75031	80	10-098	8-154
74731	17	20-422	20-690	74803	11	17-630	23-770					74960	13	2-385	4-642	75032	10	12-141	8-680
74732	30	22-627	20-926	74804	33	17-756	23-842					74961	18	2-814	4-044	75033	20	13-357	8-370
74733	10	23-271	20-946	74805	37	18-439	23-728					74962	18	3-950	4-184	75034	12	16-738	8-520
74734	26	23-848	20-062	74806	60	20-503	23-260					74963	14	4-122	4-055	75035	13	16-739	8-058
74735	50	2-049	21-390	74807	12	20-736	23-114					74964	16	5-938	4-396	75036	13	16-880	8-540
74736	10	3-307	21-660	74808	11	20-943	23-353					74965	20	6-865	4-086	75037	10	17-491	8-072
74737	9	3-494	21-450	74809	11	21-912	23-010					74966	20	10-907	4-270	75038	12	18-560	8-126
74738	11	3-981	21-292	74810	15	21-912	23-010					74967	45	13-238	4-410	75039	11	20-296	8-655
74739	20	4-726	21-284	74811	16	21-964	23-882					74968	40	20-200	4-134	75040	19	20-710	8-481
74740	9	5-701	21-320	74812	14	23-514	23-465					74969	10	22-305	4-984	75041	14	20-719	8-492
74741	13	6-184	21-309	74813	13	25-890	23-185					74970	16	22-865	4-439	75042	20	21-618	8-011
74742	12	9-054	21-028	74814	18	1-529	24-883					74971	20	22-908	4-646	75043	13	21-764	8-426
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75481	15	5-598	4-890	75553	11	10-045	7-105	75625	14	1-026	10-910	75697	17	4-256	13-614	75769	15	15-076	16-198
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75483	15	10-372	4-940	75555	8	10-870	7-378	75627	57	1-601	10-756	75699	11	6-044	13-971	75771	16	20-855	16-190
75484	17	11-523	4-274	75556	24	11-476	7-428	75628	11	5-509	10-508	75700	8	7-660	13-608	75772	9	20-856	16-124
75485	14	13-407	4-298	75557	19	13-916	7-844	75629	30	6-086	10-214	75701	10	10-768	13-723	75773	8	21-036	16-836
75486	17	14-583	4-286	75558	9	14-676	7-624	75630	14	10-976	10-138	75702	9	11-096	13-944	75774	8	21-263	16-335
75487	13	14-926	4-190	75559	12	16-186	7-781	75631	13	12-776	10-026	75703	13	11-926	13-334	75775	8	22-140	16-604
75488	11	16-427	4-830	75560	37	18-198	7-306	75632	11	12-962	10-526	75704	17	19-499	13-673	75776	16	23-186	16-475
75489	28	16-654	4-384	75561	14	18-334	7-196	75633	34	13-026	10-964	75705	15	22-369	13-786	75777	78	24-030	16-265
75490	16	19-280	4-454	75562	12	19-922	7-714	75634	17	14-944	10-206	75706	8	22-498	13-842	75778	37	0-005	17-994
75491	10	21-127	4-179	75563	10	20-264	7-874	75635	9	15-510	10-094	75707	8	23-002	13-842	75779	8	1-454	17-737
75492	28	23-360	4-434	75564	12	20-314	7-586	75636	15	17-094	10-414	75708	14	23-036	13-864	75780	13	2-514	17-704
75493	10	23-949	4-620	75565	9	20-551	7-624	75637	16	17-338	10-064	75709	22	23-636	13-864	75781	30	3-628	17-390
75494	30	25-190	4-804	75566	13	20-630	7-674	75638	22	17-420	10-198	75710	11	2-392	14-082	75782	15	4-704	17-997
75495	10	25-468	4-184	75567	18	20-792	7-806	75639	11	19-909	10-669	75711	16	4-550	14-015	75783	20	5-738	17-916
75496	10	2-324	5-808	75568	13	21-364	7-065	75640	31	21-400	10-981	75712	32	4-906	14-892	75784	12	7-528	17-266
75497	14	3-044	5-016	75569	38	21-562	7-989	75641	13	23-336	10-814	75713	9	5-248	14-314	75785	57	10-802	17-022
75498	28	5-229	5-722	75570	10	0-916	8-340	75642	15	24-688	10-524	75714	18	6-684	14-33				

75796	22	17°508	17°983	75868	16	12°623	20°626	75940	17	1°030	23°714	<b>R.A. 20<sup>h</sup> 16<sup>m</sup></b> Plate 1736 ; 1920 Nov. 14. Provisional Constants. A B C -01722 +01700 -3417 D E F -01702 -01758 +2178 Mag. = 16.3 - 0.94 $\sqrt{d}$									
75797	12	18°772	17°918	75869	26	13°084	20°958	75941	13	4°187	23°523										
75798	21	19°856	17°294	75870	25	13°386	20°726	75942	27	3°458	23°428										
75799	10	20°065	17°105	75871	22	14°896	20°388	75943	8	6°097	23°964										
75800	10	20°188	17°524	75872	12	15°776	20°856	75944	32	7°800	23°548	No. $d$ $x$ $y$ 76051 13 0°900 0°152 76052 10 1°190 0°522 76053 11 2°371 0°250 76054 11 2°445 0°816 76055 13 3°530 0°280 76056 13 3°710 0°822 76057 16 7°506 0°960 76058 36 9°022 0°095 76059 18 10°265 0°131 76060 19 13°310 0°230 76061 14 14°790 0°775 76062 46 15°934 0°724 76063 19 16°450 0°649 76064 34 16°762 0°245 76065 18 17°291 0°866 76066 38 18°331 0°481 76067 10 19°566 0°365 76068 30 20°262 0°090 76069 33 20°997 0°402 76070 37 21°240 0°532 76071 14 24°240 0°993 76072 28 5°462 1°650 76073 20 6°827 1°029 76074 17 8°404 1°810 76075 10 11°504 1°918 76076 42 11°680 1°606 76077 15 12°056 1°864 76078 14 13°220 1°042 76079 16 13°478 1°026 76080 20 14°116 1°658 76081 15 17°592 1°032 76082 10 19°708 1°568 76083 27 0°115 2°915 76084 16 2°920 2°692 76085 23 3°871 2°683 76086 14 3°961 2°671 76087 14 4°360 2°044 76088 23 4°910 2°660 76089 24 5°002 2°246 76090 18 5°536 2°272 76091 24 5°540 2°850 76092 35 5°620 2°166 76093 13 6°206 2°022 76094 26 6°823 2°364 76095 40 7°040 2°610 76096 17 8°075 2°961 76097 12 8°425 2°848 76098 55 9°556 2°423 76099 22 10°190 2°200 76100 25 10°380 2°336 76101 12 11°576 2°184 76102 12 11°875 2°100 76103 20 12°080 2°300 76104 18 12°268 2°980 76105 15 14°839 2°425									
75801	15	21°264	17°012	75873	15	16°364	20°906	75945	10	7°974	23°500										
75802	16	22°093	17°236	75874	16	16°706	20°395	75946	12	8°500	23°654	76106*	48	15°884	2°880						
75803	22	0°694	18°626	75875	24	20°054	20°234	75947	33	8°539	23°574	76107	12	16°102	2°150						
75804*	42	1°241	18°108	75876	16	22°484	20°614	75948	22	9°366	23°450	76108	20	17°340	2°824						
75805	18	2°024	18°942	75877	12	22°928	20°888	75949	20	13°768	23°694	76109	12	17°695	2°920						
75806	19	2°285	18°403	75878	12	23°334	20°777	75950	11	15°956	23°838	76110	12	18°624	2°708						
75807	24	3°904	18°610	75879	13	23°970	20°872	75951	33	16°025	23°270	76111	10	18°706	2°065						
75808	8	4°859	18°592	75880	18	25°319	20°942	75952	15	16°670	23°286	76112	16	19°655	2°094						
75809	32	5°306	18°114	75881	21	25°628	20°972	75953	17	17°622	23°706	76113	12	20°634	2°007						
75810	15	6°569	18°348	75882	32	1°643	21°814	75954	11	20°294	23°910	76114	22	21°061	2°700						
75811	13	6°651	18°394	75883	11	24°428	21°926	75955	16	21°328	23°245	76115	34	21°299	2°135						
75812	10	6°665	18°049	75884	17	3°082	21°551	75956	8	21°806	23°305	76116	42	22°392	2°310						
75813	8	7°825	18°442	75885	10	3°535	21°424	75957	12	21°926	23°527	76117	10	24°520	2°576						
75814	21	8°111	18°624	75886	17	3°844	21°698	75958	20	22°057	23°306	76118	13	2°796	3°572						
75815	16	8°228	18°748	75887	22	5°678	21°212	75959	10	22°537	23°750	76119*	44	6°486	3°795						
75816	13	8°389	18°213	75888	14	5°794	21°611	75960	28	22°637	23°044	76120	23	7°540	3°139						
75817	16	9°864	18°746	75889	38	9°146	21°640	75961	35	23°552	23°372	76121	38	7°730	3°055						
75818	8	9°946	18°633	75890	16	9°149	21°786	75962	39	24°003	23°674	76122	24	9°726	3°420						
75819	16	10°418	18°061	75891	11	9°336	21°854	75963	10	24°116	23°094	76123	19	10°783	3°808						
75820	29	11°890	18°932	75892	15	9°656	21°786	75964	34	25°019	23°057	76124	18	12°504	3°568						
75821	11	13°268	18°698	75893	16	9°796	21°216	75965	15	25°358	23°940	76125	15	13°296	3°212						
75822	24	13°392	18°952	75894	20	9°912	21°760	75966	15	25°620	23°111	76126	10	15°170	3°540						
75823	34	13°516	18°947	75895	9	11°663	21°054	75967	18	25°798	23°398	76127	21	16°060	3°985						
75824	33	14°448	18°644	75896	12	12°466	21°946	75968	14	25°866	23°420	76128	13	16°534	3°150						
75825	10	15°234	18°875	75897	17	13°042	21°248	75969	17	2°806	24°304	76129	18	16°962	3°670						
75826	19	16°714	18°134	75898	9	13°780	21°574	75970	11	7°054	24°744	76130	20	18°282	3°910						
75827	34	16°900	18°692	75899	18	13°844	21°226	75971	16	8°490	24°424	76131	17	18°372	3°845						
75828	17	17°290	18°746	75900	12	13°978	21°484	75972	22	9°655	24°185	76132*	54	19°439	3°670						
75829	14	17°306	18°844	75901	28	13°979	21°398	75973	24	10°420	24°668	76133	12	20°714	3°796						
75830	10	18°042	18°181	75902	16	14°184	21°276	75974	37	10°866	24°546	76134	43	21°266	3°826						
75831	16	18°651	18°335	75903	23	15°648	21°988	75975	17	11°054	24°500	76135	21	21°480	3°530						
75832	10	19°728	18°710	75904	8	15°755	21°304	75976	11	12°283	24°693	76136	15	22°450	3°979						
75833	16	20°745	18°634	75905	28	19°124	21°289	75977	8	12°464	24°763	76137	24	1°549	4°792						
75834	32	22°064	18°686	75906	14	19°398	21°582	75978	12	12°588	24°056	76138	13	3°652	4°505						
75835	20	22°698	18°788	75907	16	19°821	21°594	75979	9	13°554	24°332	76139	19	3°916	4°314						
75836	19	23°327	18°446	75908	10	19°944	21°094	75980	23	14°412	24°762	76140	13	3°960	4°204						
75837	24	25°884	18°194	75909	38	20°005	21°860	75981	12	15°594	24°857	76141	37	4°404	4°066						
75838	26	1°077	19°648	75910	15	20°109	21°451	75982	19	16°834	24°460	76142	11	4°420	4°129						
75839	8	1°704	19°458	75911	16	21°363	21°738	75983	8	17°582	24°994	76143*	98	5°904	4°208						
75840	20	1°874	19°694	75912	14	21°373	21°634	75984	17	19°694	24°540	76144	11	5°905	4°710						
75841*	38	2°536	19°024	75913	10	21°892	21°460	75985	36	19°741	24°003	76145	21	7°665	4°548						
75842	18	2°687	19°154	75914	19	23°602	21°066	75986	15	19°804	24°003	76146	15	7°859	4°318						
75843	22	6°494	19°376	75915	15	24°238	21°924	75987	15	21°239	24°046	76147	14	9°914	4°280						
75844	12	7°766	19°346	75916	11	24°424	21°706	75988	23	21°392	24°624	76148	25	10°412	4°240						
75845	38	8°034	19°164	75917	12	25°086	21°268	75989	10	21°438	24°432	76149	12	11°508	4°582						
75846	20	8°968	19°938	75918	16	25°692	21°274	75990	10	22°176	24°662	76150	18	12°082	4°212						
75847	11	9°424	19°058	75919	13	1°732	22°886	75991	11	22°448	24°658	76151	12	12°158	4°651						
75848	9	10°144	19°466	75920	14	3°552	22°706	75992	17	22°760	24°636	76152	10	13°884	4°547						
75849	8	11°106	19°828	75921	13	3°966	22°106	75993	10	23°148	24°653	76153	34	14°210	4°220						
75850	15	11°406	19°445	75922	21	4°954	22°526	75994	39	23°956	24°782	76154	12	15°242	4°082						
75851	13	11°950	19°784	75923	30	6°442	22°553	75995	34	2°974	25°										

76178	12	13°13.4	5°23.2	76250	40	3°49.4	8°73.2	76322	26	17°8.20	10°04.8	76394	32	22°7.23	12°99.7	76466	12	6°61.0	15°33.1
76179	21	13°55.3	5°32.0	76251	19	4°30.5	8°37.0	76323	12	18°59.0	10°52.4	76395	59	22°7.87	12°4.71	76467	53	6°68.0	15°25.2
76180	31	14°28.0	5°12.0	76252	18	4°95.0	8°04.6	76324	12	18°85.5	10°62.2	76396	32	24°1.73	12°39.0	76468	26	6°82.4	15°44.8
76181	12	16°45.6	5°12.2	76253	21	4°97.0	8°01.2	76325	26	20°63.0	10°07.2	76397	19	24°07.6	12°7.78	76469	38	7°75.5	15°73.0
76182	11	17°06.6	5°44.0	76254	20	5°11.0	8°23.2	76326	23	20°84.3	10°12.2	76398	12	24°8.05	12°03.4	76470	13	10°14.6	15°34.4
76183	12	17°83.4	5°99.2	76255	12	5°84.0	8°44.0	76327	38	20°90.6	10°91.8	76399	12	0°8.32	13°2.20	76471	35	10°43.1	15°30.2
76184	16	20°88.0	5°73.7	76256	11	8°34.5	8°78.2	76328	15	21°83.2	10°31.0	76400	13	1°57.0	13°47.0	76472	23	13°83.2	15°14.2
76185	10	21°28.8	5°22.8	76257	12	10°21.2	8°71.4	76329	12	22°26.0	10°02.7	76401	23	4°39.5	13°06.5	76473	11	13°95.0	15°45.2
76186	25	21°50.9	5°28.0	76258	24	11°42.4	8°10.2	76330	11	22°28.6	10°06.5	76402	16	5°36.4	13°40.5	76474	20	14°89.7	15°35.4
76187	18	21°63.4	5°13.4	76259	14	12°17.0	8°07.3	76331	60	22°62.5	10°41.1	76403	16	8°84.8	13°14.0	76475	11	16°72.4	15°24.0
76188	18	21°89.0	5°74.5	76260	20	12°83.2	8°22.3	76332	26	23°03.0	10°83.9	76404	36	9°37.0	13°43.7	76476	12	17°29.5	15°63.4
76189	26	21°99.0	5°28.2	76261	14	14°09.0	8°05.0	76333	12	23°61.6	10°53.8	76405	13	11°34.5	13°40.5	76477	10	18°20.3	15°81.7
76190	17	22°43.4	5°16.5	76262	14	14°83.6	8°08.0	76334	15	24°85.0	10°91.5	76406	16	14°20.6	13°73.0	76478	20	20°58.9	15°96.2
76191	13	23°86.4	5°34.0	76263	14	15°05.0	8°06.5	76335	14	0°13.5	11°43.0	76407	16	14°05.5	13°50.4	76479	12	20°66.5	15°14.5
76192	13	25°50.5	5°62.4	76264	13	17°15.6	8°32.1	76336	17	0°85.0	11°42.0	76408	25	15°10.5	13°50.4	76480	10	20°97.2	15°98.0
76193	12	25°99.9	5°37.7	76265	65	17°26.7	8°79.0	76337	14	1°34.0	11°67.2	76409	15	15°42.4	13°56.0	76481	15	21°78.2	15°86.2
76194	12	0°45.9	6°30.4	76266	25	18°18.4	8°07.5	76338	28	1°62.4	11°17.0	76410	15	16°07.4	13°05.6	76482	41	22°23.0	15°32.6
76195	22	0°54.2	6°68.2	76267	20	19°25.6	8°21.5	76339	17	1°98.5	11°42.5	76411	20	16°09.6	13°00.7	76483	30	23°46.5	15°47.0
76196	29	1°21.8	6°13.4	76268	21	21°18.2	8°17.0	76340	40	5°21.8	11°36.0	76412	30	17°16.8	13°11.3	76484	15	1°56.8	16°83.0
76197	13	1°62.0	6°02.4	76269	10	21°58.4	8°55.5	76341	12	5°47.4	11°02.0	76413	15	17°69.0	13°58.6	76485	84	2°40.0	16°60.8
76198	16	4°91.6	6°05.0	76270	15	21°71.0	8°26.0	76342	14	5°65.5	11°45.0	76414	15	17°77.4	13°53.0	76486	12	4°40.6	16°23.0
76199	22	5°20.8	6°31.8	76271	10	22°17.4	8°39.4	76343	40	4°46.8	11°59.5	76415	16	19°04.5	13°09.9	76487	26	6°44.2	16°72.8
76200	58	5°55.4	6°82.0	76272	16	24°53.0	8°14.0	76344	13	8°58.0	11°62.2	76416	15	20°04.0	13°02.1	76488	15	5°16.1	16°47.3
76201	13	8°90.5	6°97.0	76273	17	24°87.5	8°05.0	76345	13	8°89.0	11°63.9	76417	25	21°09.2	13°04.0	76489	26	6°52.5	16°79.0
76202	16	10°56.8	6°21.0	76274	12	25°10.4	8°01.6	76346	16	10°86.0	11°04.2	76418	18	21°54.8	13°00.8	76490	10	10°25.0	16°32.0
76203	10	11°32.2	6°80.5	76275	12	25°37.7	8°59.4	76347	10	12°28.0	11°28.2	76419	12	21°85.3	13°51.8	76491	19	10°92.6	16°33.1
76204	12	13°31.0	6°08.4	76276	11	1°59.1	9°14.0	76348	37	12°32.0	11°05.6	76420	26	21°09.8	13°14.2	76492	35	11°14.0	16°03.4
76205	22	14°07.4	6°04.2	76277	12	2°04.6	9°36.6	76349	51	12°47.6	11°05.0	76421	38	22°46.1	13°14.5	76493	22	12°01.9	16°17.1
76206	14	14°00.7	6°07.0	76278	16	4°30.2	9°52.2	76350	45	12°63.6	11°83.6	76422	58	22°84.4	13°01.2	76494	52	12°31.6	16°56.2
76207	13	14°93.5	6°26.5	76279	11	5°06.1	9°67.0	76351	12	13°61.8	11°72.1	76423	13	23°77.0	13°07.3	76495	13	12°64.2	16°56.6
76208	17	15°73.0	6°35.3	76280	15	5°14.2	9°87.1	76352	10	14°12.6	11°93.0	76424	24	24°11.4	13°70.0	76496	13	12°83.0	16°74.7
76209	10	16°72.8	6°70.6	76281	14	5°33.6	9°01.4	76353	14	14°46.0	11°02.8	76425	14	0°79.7	14°15.4	76497	17	12°83.2	16°79.8
76210	35	17°41.7	6°80.9	76282	14	6°75.0	9°34.8	76354	14	16°17.2	11°59.8	76426	15	1°34.0	14°20.0	76498	101	13°38.4	16°00.0
76211	11	18°25.2	6°39.0	76283	18	7°47.2	9°23.5	76355	29	16°18.2	11°57.0	76427	20	19°76.0	14°21.5	76499	12	14°22.8	16°14.6
76212	65	18°76.2	6°70.9	76284	14	7°91.0	9°53.1	76356	20	16°19.5	11°43.9	76428	106	21°64.1	14°38.7	76500	18	14°23.9	16°57.4
76213	24	18°85.5	6°20.7	76285	21	8°75.8	9°07.4	76357	15	17°66.0	11°95.4	76429	14	4°83.9	14°04.7	76501	13	15°07.0	16°73.1
76214	45	20°06.0	6°01.1	76286	42	9°04.8	9°01.6	76358	13	17°90.1	11°30.4	76430	11	5°36.6	14°56.4	76502	20	17°33.3	16°00.2
76215	22	20°27.1	6°57.8	76287	14	9°95.2	9°25.4	76359	13	18°01.0	11°80.9	76431	13	5°54.5	14°34.9	76503	12	19°34.0	16°72.2
76216	20	21°05.5	6°46.6	76288	15	11°03.8	9°17.8	76360	11	19°35.2	11°27.8	76432	10	7°63.5	14°73.1	76504	14	19°52.2	16°03.4
76217	18	22°25.5	6°09.2	76289	36	11°55.6	9°06.6	76361	12	20°18.6	11°18.4	76433	12	7°73.7	14°55.0	76505	12	19°53.1	16°03.9
76218	44	22°52.5	6°53.0	76290	85	11°82.0	9°63.9	76362	20	20°29.0	11°81.4	76434	14	9°41.8	14°58.8	76506	10	19°65.0	16°82.8
76219	12	24°14.8	6°46.1	76291	28	11°93.0	9°06.1	76363	17	20°62.2	11°94.4	76435	48	9°41.8	14°50.8	76507	23	19°83.5	16°30.0
76220	10	24°28.0	6°44.8	76292	15	13°95.6	9°63.2	76364	12	22°00.8	11°95.0	76436	38	11°00.7	14°33.9	76508	17	20°39.3	16°91.4
76221	12	25°21.9	6°38.0	76293	25	14°11.5	9°24.0	76365	25	22°10.8	11°09.4	76437	18	11°45.0	14°30.8	76509	12	20°47.4	16°56.8
76222	12	25°49.6	6°61.8	76294	13	14°07.6	9°40.0	76366	13	22°21.6	11°07.4	76438	14	12°15.0	14°34.5	76510	12	21°37.4	16°66.7
76223	12	25°59.4	6°80.2	76295	12	15°34.6	9°04.4	76367	43	22°47.6	11°17.3	76439	10	12°15.2	14°33.4	76511	31	22°07.4	16°52.8
76224	12	0°97.0	7°58.4	76296	13	15°84.0	9°64.0	76368	12	23°60.6	11°09.0	76440	12	12°65.5	14°04.1	76512	13	22°47.4	16°62.6
76225	15	6°64.0	7°62.0	76297	12	16°10.2	9°80.0	76369	17	24°04.9	11°19.5	76441	32	14°26.0	14°70.9	76513	12	22°50.0	16°18.2
76226	14	7°00.4	7°13.4	76298	38	16°69.0	9°57.0	76370	17	24°89.0	11°88.0	76442	14	14°85.4	14°41.1	76514	19	23°86.0	16°61.8
76227	39	7°26.2	7°15.0	76299	16	17°51.2	9°24.2	76371	13	24°97.2	11°07.1	76443	10	14°94.3	14°87.4	76515	10	24°50.0	16°66.0
76228	13	8°62.5	7°28.6	76300	22	19°08.6	9°71.4	76372	12	25°85.6	11°41.4	76444	25	15°03.8	14°03.0	76516	19	25°14.8	16°86.0
76229	18	9°25.5	7°55.8	76301	17	2°97.6	10°85.7	76373	20	0°22.0	12°80.4	76445	20	15°26.6	14°29.8	76517	19	25°94.0	16°68.8
76230	12	10°21.7	7°24.6	76302	20	3°31.0	10°13.2	76374	13	2°74.9	12°08.5	76446	13	15°52.1	14°35.6	76518	15	3°38.4	17°56.4
76231	24	11°78.4	7°12.4	76303	15	4°06.2	10°28.6	76375	4	3°68.0	12°39.9	76447	40	15°59.9	14°35.5	76519	10	5°71.9	17°45.1
76232	14	12°09.4	7°18.5	76304	19	4°11.4	10°05.4	76376	12	4°20.8	12°56.0	76448	14	15°06.6	14°09.5	76520	29	9°35.0	17°02.2
76233	13	14°27.9	7°81.2	76305	17	4°33.1	10°82.5	76377	56	5°14.2	12°45.3	76449	25	17°24.0	14°27.5	76521	40	10°10.0	17°01.6
76234	14	16°78.5	7°71.7	76306	11	5°62.3	10°18.0	76378	35	6°51.5	12°28.0	76450	18	17°26.4	14°30.4	76522	13	10°37.0	17°07.1
76235	12	17°17.7	7°26.0	76307	16	5°79.0	10°90.0	76379	24	6°51.5	12°29.2	76451	25	17°31.0	14°53.4	76523	10	11°30.0	17°96.0
76236	20	18°23.6	7°93.0	76308	38	5°90.2	10°44.4	76380	13	6°95.2	12°30.7	76452	18	17°95.2	14°77.5	76524	15	13°64.0	17°66.6
76237	15	18°93.6	7°05.																



76538	15	25°29'6"	17°28'5"	76610	16	22°00'6"	19°55'6"	76682	20	12°06'8"	22°04'0"	76754	20	16°03'6"	24°18'5"	76806	25	12°49'8"	0°88'1"
76539	19	25°00'5"	17°07'0"	76611	15	22°9'6"	19°54'6"	76683	26	13°21'8"	22°9'8"	76755	20	18°21'4"	24°9'2"	76807	27	13°71'0"	0°88'5"
76540	34	25°05'8"	17°8'50"	76612	16	23°2'30"	19°6'70"	76684	19	13°35'7"	22°04'0"	76756	14	18°25'0"	24°7'06"	76808	12	14°68'1"	0°99'6"
76541	20	1°74'0"	18°8'00"	76613	14	25°10'0"	19°8'00"	76685	12	13°6'00"	22°42'0"	76757	35	18°38'4"	24°38'5"	76809	17	15°18'4"	0°01'5"
76542	14	2°58'2"	18°23'8"	76614	13	25°8'58"	19°6'68"	76686	24	14°00'5"	22°58'9"	76758	25	19°12'1"	24°15'2"	76810	10	16°44'0"	0°55'0"
76543	23	4°29'0"	18°50'6"	76615	13	0°93'3"	20°9'82"	76687	34	14°42'6"	22°70'4"	76759	19	19°23'0"	24°46'7"	76811	21	16°84'6"	0°66'2"
76544	14	4°52'6"	18°6'30"	76616	15	4°44'5"	20°53'8"	76688	21	17°02'6"	22°05'0"	76760	20	19°39'2"	24°9'22"	76812	15	17°61'0"	0°32'5"
76545	12	4°7'60"	18°7'52"	76617	20	4°81'0"	20°6'00"	76689	16	17°56'2"	22°27'0"	76761	11	20°40'4"	24°31'1"	76813	10	18°02'4"	0°72'4"
76546*	50	5°43'6"	18°55'6"	76618	25	7°9'75"	20°8'64"	76690	12	18°05'7"	22°32'4"	76762	12	21°8'18"	24°31'5"	76814	13	18°63'4"	0°78'8"
76547	13	7°62'5"	18°02'0"	76619	25	10°3'00"	20°7'81"	76691	12	18°68'7"	22°45'7"	76763	12	22°15'9"	24°69'5"	76815	11	18°71'8"	0°54'4"
76548	42	7°70'0"	18°04'0"	76620	12	11°43'4"	20°16'0"	76692	12	19°06'8"	22°16'2"	76764	16	23°51'9"	24°20'5"	76816	14	20°21'4"	0°74'0"
76549	12	7°82'6"	18°6'92"	76621	13	11°84'8"	20°16'4"	76693	40	21°14'2"	22°18'3"	76765	10	23°80'2"	24°06'1"	76817	10	20°26'8"	0°62'8"
76550	19	8°15'0"	18°57'5"	76622	25	12°9'75"	20°53'8"	76694	19	21°24'2"	22°53'4"	76766	14	23°9'22"	24°22'8"	76818	10	20°72'6"	0°46'2"
76551	12	8°43'8"	18°80'4"	76623	14	13°25'2"	20°53'8"	76695	16	22°26'4"	22°19'3"	76767	13	24°88'0"	24°38'2"	76819	14	23°68'4"	0°91'6"
76552	24	9°34'7"	18°70'8"	76624	27	13°78'1"	20°05'6"	76696	14	23°42'0"	22°53'6"	76768	15	25°65'7"	24°61'6"	76820	22	24°29'1"	0°81'0"
76553	10	9°79'9"	18°88'6"	76625	10	14°47'5"	20°28'8"	76697	13	23°64'5"	22°22'2"	76769	40	0°40'0"	25°75'8"	76821	25	25°01'2"	0°76'4"
76554	36	10°22'2"	18°58'0"	76626	56	14°82'1"	20°57'0"	76698	18	23°66'8"	22°64'4"	76770	12	0°96'2"	25°02'5"	76822	28	25°15'4"	0°11'4"
76555	22	10°73'2"	18°15'0"	76627	14	15°54'4"	20°71'7"	76699	19	24°17'2"	22°64'0"	76771	24	1°09'4"	25°75'5"	76823	12	25°66'0"	0°65'6"
76556	21	11°82'0"	18°9'00"	76628	40	17°98'8"	20°75'6"	76700	12	25°10'1"	22°05'8"	76772	16	1°66'4"	25°00'8"	76824	16	2°23'4"	1°12'7"
76557	23	12°53'7"	18°03'6"	76629	18	18°01'8"	20°31'3"	76701	19	25°17'5"	22°20'6"	76773	37	2°40'5"	25°12'2"	76825	11	3°31'6"	1°28'2"
76558	10	13°35'8"	18°06'6"	76630	36	19°59'6"	20°11'8"	76702	25	25°37'1"	22°90'5"	76774	15	5°24'0"	25°46'2"	76826	14	5°25'4"	1°13'1"
76559	17	14°12'8"	18°44'4"	76631	26	21°92'8"	20°38'6"	76703	12	0°29'9"	23°68'1"	76775	13	5°35'3"	25°83'5"	76827	23	6°40'6"	1°80'7"
76560	13	15°00'3"	18°20'2"	76632	12	22°30'0"	20°12'4"	76704	15	0°42'4"	23°90'1"	76776	15	5°54'1"	25°43'2"	76828	28	8°98'0"	1°16'0"
76561	38	16°13'0"	18°27'5"	76633	10	24°31'6"	20°03'0"	76705	25	5°11'0"	23°40'9"	76777	15	6°14'0"	25°77'3"	76829	26	9°87'9"	1°84'2"
76562	42	16°38'4"	18°02'6"	76634	12	24°43'5"	20°47'0"	76706	22	1°54'7"	23°66'2"	76778	15	6°29'1"	25°40'0"	76830	11	10°13'6"	1°81'0"
76563	14	17°61'2"	18°59'8"	76635	13	0°35'5"	21°83'6"	76707	38	2°04'0"	23°72'1"	76779	58	6°59'0"	25°19'2"	76831	11	10°87'1"	1°98'8"
76564	14	18°62'2"	18°7'58"	76636	18	2°05'6"	21°41'5"	76708	12	2°06'8"	23°43'6"	76780	41	7°45'8"	25°72'5"	76832	45	11°58'0"	1°76'2"
76565	13	19°52'0"	18°33'8"	76637	13	2°42'1"	21°21'5"	76709	25	3°50'5"	23°38'4"	76781	29	10°20'5"	25°44'0"	76833	16	11°77'6"	1°49'3"
76566	22	20°45'0"	18°50'6"	76638	12	3°54'5"	21°59'2"	76710	17	4°10'8"	23°42'8"	76782	13	10°23'8"	25°95'8"	76834	23	13°47'5"	1°01'9"
76567	12	20°46'5"	18°04'6"	76639	20	3°77'1"	21°26'6"	76711	19	4°28'9"	23°71'2"	76783	51	11°52'1"	25°72'8"	76835*	66	14°90'4"	1°34'8"
76568	15	20°49'0"	18°87'4"	76640	20	4°08'0"	21°28'8"	76712	15	4°35'0"	23°73'0"	76784	18	11°88'5"	25°34'0"	76836	39	16°34'0"	1°74'7"
76569	13	22°7'68"	18°59'6"	76641	16	4°14'8"	21°59'0"	76713	30	4°71'0"	23°13'0"	76785	19	11°89'6"	25°43'5"	76837	12	17°57'6"	1°78'8"
76570	16	23°28'4"	18°40'0"	76642	13	4°63'8"	21°32'6"	76714	22	5°87'0"	23°52'5"	76786	19	12°02'4"	25°02'5"	76838	24	17°62'9"	1°80'7"
76571	20	24°29'0"	18°99'3"	76643	15	4°81'8"	21°88'8"	76715	13	6°77'0"	23°77'8"	76787	22	12°08'4"	25°09'2"	76839	16	18°10'6"	1°80'0"
76572	24	0°47'9"	19°06'1"	76644	16	7°84'0"	21°03'0"	76716	17	7°27'9"	23°46'6"	76788	25	12°25'0"	25°20'6"	76840	25	20°11'6"	1°56'6"
76573	20	1°11'8"	19°15'3"	76645	19	9°22'8"	21°93'8"	76717	36	8°10'6"	23°75'8"	76789	22	12°49'8"	25°10'0"	76841	19	23°95'6"	1°05'3"
76574	15	4°75'1"	19°37'8"	76646	12	9°67'5"	21°87'0"	76718	11	9°89'8"	23°18'4"	76790	24	13°73'8"	25°28'0"	76842	45	0°38'6"	2°45'4"
76575	36	5°31'2"	19°01'0"	76647	13	10°55'2"	21°02'2"	76719	17	10°09'5"	23°12'5"	76791	26	13°78'0"	25°79'6"	76843	12	2°52'0"	2°70'7"
76576	12	5°61'8"	19°01'5"	76648	12	10°74'2"	21°34'0"	76720	12	10°43'4"	23°26'6"	76792	18	14°22'5"	25°06'1"	76844*	55	4°34'3"	2°54'6"
76577	25	7°50'2"	19°64'0"	76649	13	10°88'8"	21°09'2"	76721	17	10°79'8"	23°73'0"	76793	10	15°28'2"	25°90'0"	76845	33	5°32'6"	2°75'6"
76578	10	7°96'1"	19°45'4"	76650	15	12°64'5"	21°00'2"	76722	26	11°44'2"	23°09'7"	76794	10	16°16'5"	25°37'3"	76846	17	5°88'0"	2°96'7"
76579	15	8°33'4"	19°56'6"	76651	17	15°88'2"	21°84'3"	76723	13	13°26'6"	23°16'0"	76795	28	16°28'5"	25°80'2"	76847	22	6°72'1"	2°78'0"
76580	12	8°54'2"	19°37'2"	76652	12	16°22'0"	21°38'6"	76724	16	13°32'6"	23°34'4"	76796	16	17°86'0"	25°79'0"	76848	21	6°77'2"	2°23'0"
76581	25	8°7'00"	19°78'6"	76653	20	16°64'2"	21°74'8"	76725	16	13°91'2"	23°38'8"	76797	53	18°50'0"	25°06'6"	76849	11	9°91'6"	2°91'4"
76582	14	8°75'7"	19°88'8"	76654	32	17°51'0"	21°93'4"	76726	25	14°21'0"	23°31'0"	76798	12	20°01'6"	25°84'8"	76850	30	15°19'6"	2°91'3"
76583	19	12°27'8"	19°67'5"	76655	18	17°56'5"	21°79'5"	76727	19	14°80'4"	23°71'0"	76799	14	20°93'7"	25°59'3"	76851	31	16°03'0"	2°06'4"
76584	13	12°55'0"	19°60'9"	76656	20	18°05'1"	21°81'8"	76728	13	14°80'6"	23°56'4"	76800	15	25°38'0"	25°51'4"	76852	12	16°10'1"	2°22'0"
76585	11	12°59'5"	19°28'5"	76657	11	18°06'6"	21°83'1"	76729	13	15°56'0"	23°11'4"					76853	16	16°28'2"	2°16'1"
76586	15	13°31'2"	19°88'2"	76658	11	18°28'9"	21°87'6"	76730	14	17°05'5"	23°85'6"					76854	17	16°84'2"	2°30'0"
76587	15	13°45'5"	19°03'8"	76659	23	18°66'5"	21°95'1"	76731	18	17°09'7"	23°71'0"					76855	11	16°87'8"	2°56'1"
76588	14	13°48'4"	19°14'2"	76660	12	18°79'5"	21°33'5"	76732	13	19°56'1"	23°59'8"					76856	10	17°68'4"	2°65'4"
76589	12	13°54'0"	19°52'6"	76661	12	20°84'4"	21°41'0"	76733	20	20°97'4"	23°57'8"					76857	22	18°81'0"	2°97'4"
76590	14	13°56'5"	19°37'6"	76662	11	21°40'0"	21°21'6"	76734	24	22°11'8"	23°44'8"					76858	17	21°83'3"	2°87'6"
76591	14	13°71'6"	19°80'5"	76663	42	21°84'0"	21°69'9"	76735	44	23°01'0"	23°22'5"					76859	17	23°29'9"	2°86'4"
76592	32	14°28'0"	19°40'0"	76664	13	24°35'2"	21°60'9"	76736	45	23°07'8"	23°45'3"					76860	14	23°72'7"	2°17'2"
76593	18	14°31'4"	19°00'4"	76665	12	25°12'0"	21°60'9"	76737	20	1°27'4"	24°99'8"					76861	15	24°12'7"	2°32'4"
76594	28	14°41'6"	19°05'5"	76666	16	25°13'2"	21°38'0"	76738	38	2°49'6"	24°01'6"					76862	12	0°49'6"	3°63'0"
76595	15	14°75'2"	19°06'6"	76667	50	25°26'2"	21°72'4"	76739	30	3°85'8"	24°26'2"					76863	10	3°95'2"	3°93'7"
76596	14	15°78'2"	19°55'5"	76668	14	1°30'8"	22°93'8"	76740	15	5°30'0"	24°74'2"					76864	11	5°74'4"	3°56'0"
76597	21	16°40'0"	19°39'7"	76669	13	2°47'2"	22°25'0"	76741	39	5°30'9"	24°78'4"					76865	23	6°83'8"	3°63'0"
76598	12	16°56'2"	19°03'3"	76670	17	2°70'6"	22°26'5"	76742	16	5°32'6"	2								



76878	15	19° 9' 70	3° 53' 3	76950	20	8° 4' 00	6° 0' 75	77022	11	16° 1' 75	8° 6' 33	77094	41	20° 0' 66	11° 9' 50	77166	10	8° 9' 26	15° 0' 24
76879	29	20° 1' 60	3° 8' 58	76951	57	8° 9' 99	6° 2' 92	77023	11	18° 2' 68	8° 6' 37	77095	49	22° 1' 22	11° 4' 40	77167	24	10° 4' 42	15° 4' 60
76880	18	20° 1' 61	3° 2' 58	76952	16	9° 9' 84	6° 7' 42	77024	14	18° 4' 56	8° 7' 84	77096	10	23° 3' 54	11° 4' 86	77168	45	10° 8' 20	15° 4' 79
76881	32	20° 8' 46	3° 0' 61	76953	16	11° 1' 98	6° 8' 84	77025	25	18° 7' 54	8° 0' 56	77097	21	23° 9' 89	11° 2' 70	77169	33	10° 9' 40	15° 5' 42
76882*	57	22° 4' 80	3° 5' 90	76954	50	11° 9' 54	6° 2' 64	77026	26	20° 1' 54	8° 1' 86	77098	38	24° 3' 82	11° 6' 14	77170	44	12° 2' 70	15° 2' 18
76883	11	23° 7' 00	3° 6' 68	76955	23	12° 2' 52	6° 7' 00	77027	30	21° 2' 35	8° 0' 46	77099	19	24° 8' 74	11° 0' 04	77171	21	14° 7' 20	15° 2' 26
76884	25	25° 1' 00	3° 1' 71	76956	20	12° 6' 26	6° 8' 10	77028	20	21° 2' 39	8° 0' 20	77100	14	0° 0' 51	12° 1' 00	77172	29	16° 8' 54	15° 6' 50
76885	18	0° 4' 55	4° 1' 22	76957	23	13° 2' 06	6° 3' 60	77029	11	22° 4' 75	8° 6' 24	77101	24	0° 1' 50	12° 0' 53	77173	12	18° 2' 27	15° 3' 00
76886	24	1° 7' 81	4° 3' 43	76958	20	14° 4' 32	6° 8' 96	77030	12	22° 9' 64	8° 7' 50	77102*	62	0° 8' 26	12° 0' 15	77174	10	18° 7' 33	15° 1' 68
76887	12	2° 0' 98	4° 8' 58	76959	11	15° 0' 58	6° 2' 64	77031	14	4° 6' 34	9° 3' 35	77103	36	2° 2' 16	12° 5' 29	77175	20	19° 2' 70	15° 7' 42
76888	25	2° 2' 89	4° 7' 63	76960	10	16° 2' 64	6° 8' 10	77032	21	6° 5' 54	9° 7' 86	77104	22	2° 7' 24	12° 9' 15	77176	26	22° 0' 50	15° 8' 60
76889	10	2° 8' 27	4° 2' 66	76961	33	17° 6' 06	6° 7' 77	77033	12	7° 7' 02	9° 1' 44	77105	11	2° 8' 48	12° 1' 70	77177	10	25° 0' 56	15° 6' 94
76890	11	3° 7' 78	4° 7' 04	76962	12	20° 4' 06	6° 1' 48	77034	12	7° 8' 04	9° 4' 60	77106	22	2° 9' 33	12° 0' 22	77178	30	0° 1' 40	16° 0' 76
76891	19	5° 0' 34	4° 5' 80	76963	15	20° 5' 80	6° 9' 36	77035	19	9° 9' 12	9° 6' 67	77107	11	4° 5' 68	12° 7' 34	77179	12	0° 5' 38	16° 7' 72
76892	12	5° 3' 08	4° 5' 30	76964	33	20° 8' 20	6° 8' 29	77036	48	10° 1' 18	8° 0' 84	77108	12	5° 6' 56	12° 0' 92	77180	10	0° 5' 64	16° 3' 32
76893	12	6° 4' 19	4° 1' 86	76965	16	21° 4' 78	6° 1' 35	77037	13	10° 1' 34	9° 6' 04	77109	13	5° 8' 84	12° 0' 98	77181	24	1° 9' 26	16° 7' 59
76894	30	9° 0' 97	4° 4' 47	76966	28	21° 7' 12	6° 3' 34	77038	18	13° 8' 53	9° 6' 00	77110	14	7° 5' 25	12° 6' 35	77182	10	3° 1' 90	16° 2' 61
76895	11	9° 4' 92	4° 4' 50	76967	12	22° 9' 36	6° 8' 37	77039	19	16° 0' 38	9° 3' 38	77111	16	7° 6' 68	12° 6' 83	77183	16	3° 2' 12	16° 9' 94
76896	29	11° 3' 18	4° 8' 04	76968	22	23° 1' 22	6° 2' 76	77040	17	19° 3' 12	9° 8' 66	77112	16	11° 8' 06	12° 0' 96	77184*	75	5° 5' 03	16° 3' 46
76897	12	14° 4' 59	4° 1' 30	76969	15	23° 5' 70	6° 0' 82	77041	25	20° 0' 36	9° 1' 72	77113	48	13° 7' 46	12° 8' 08	77185	10	6° 4' 93	16° 4' 00
76898	13	14° 9' 52	4° 9' 98	76970	15	23° 9' 81	6° 2' 44	77042	12	21° 2' 26	9° 9' 11	77114	56	14° 2' 33	12° 4' 90	77186	47	6° 7' 88	16° 8' 52
76899	12	15° 0' 00	4° 6' 24	76971	13	24° 4' 26	6° 1' 58	77043	20	21° 6' 07	9° 3' 53	77115	30	14° 3' 80	12° 9' 52	77187*	88	7° 7' 84	16° 8' 44
76900	27	16° 5' 84	4° 3' 68	76972	15	24° 8' 03	6° 9' 38	77044	10	22° 1' 55	9° 2' 08	77116	10	20° 4' 48	12° 9' 35	77188	14	8° 1' 43	16° 4' 66
76901	21	16° 6' 26	4° 8' 90	76973	15	25° 5' 40	6° 2' 60	77045	22	22° 4' 10	9° 5' 25	77117	28	22° 9' 27	12° 6' 85	77189	10	8° 8' 94	16° 2' 88
76902	22	16° 8' 08	4° 5' 30	76974	26	0° 5' 76	7° 4' 67	77046*	53	23° 4' 60	9° 8' 21	77118	10	22° 6' 06	12° 3' 76	77190	14	9° 4' 44	16° 3' 74
76903	15	17° 8' 32	4° 9' 01	76975	23	1° 4' 98	7° 3' 66	77047	14	22° 5' 04	9° 5' 10	77119	30	23° 0' 50	12° 8' 59	77191	45	9° 7' 84	16° 7' 64
76904	16	17° 9' 80	4° 9' 04	76976	27	3° 5' 58	7° 4' 37	77048	11	22° 5' 25	9° 5' 08	77120	16	23° 5' 09	12° 8' 00	77192	39	10° 3' 86	16° 3' 46
76905	33	20° 9' 85	4° 0' 22	76977	14	3° 9' 66	7° 9' 50	77049	34	22° 8' 67	9° 7' 81	77121	11	25° 3' 30	12° 6' 83	77193	12	10° 3' 10	16° 0' 99
76906	14	23° 1' 98	4° 5' 36	76978	13	4° 7' 90	7° 8' 78	77050	42	24° 0' 60	9° 1' 46	77122	40	0° 5' 10	13° 5' 00	77194	33	13° 6' 18	16° 4' 34
76907	22	23° 6' 27	4° 3' 66	76979	13	5° 9' 00	7° 7' 03	77051	17	25° 6' 77	9° 1' 10	77123	32	0° 7' 68	13° 1' 44	77195	12	13° 6' 72	16° 0' 58
76908	21	23° 8' 72	4° 6' 59	76980	11	6° 5' 93	7° 3' 60	77052	10	25° 7' 86	9° 1' 22	77124	15	1° 8' 20	13° 8' 14	77196	15	13° 8' 72	16° 4' 00
76909	35	25° 3' 90	4° 8' 26	76981	12	7° 5' 20	7° 2' 66	77053	47	25° 9' 56	9° 0' 68	77125	26	2° 1' 04	13° 8' 38	77197	23	16° 0' 74	16° 4' 97
76910	23	0° 0' 00	5° 4' 30	76982	39	10° 0' 06	7° 3' 16	77054	14	0° 2' 96	10° 1' 74	77126	16	4° 8' 05	13° 5' 86	77198	23	16° 4' 30	16° 9' 24
76911	14	0° 4' 44	5° 3' 10	76983	32	10° 7' 10	7° 7' 72	77055	10	0° 3' 22	10° 2' 12	77127	24	5° 4' 53	13° 0' 38	77199	39	17° 7' 94	16° 3' 32
76912	17	1° 8' 74	5° 4' 76	76984	10	11° 1' 40	7° 6' 90	77056*	59	0° 6' 56	10° 5' 57	77128	24	7° 5' 30	13° 0' 26	77200	59	17° 9' 33	16° 9' 65
76913	23	2° 1' 16	5° 0' 44	76985	46	12° 5' 77	7° 1' 30	77057	25	1° 0' 66	10° 9' 84	77129	25	8° 7' 32	13° 0' 06	77201	25	18° 3' 54	16° 9' 82
76914	15	3° 5' 20	5° 7' 55	76986	15	13° 1' 14	7° 5' 75	77058	14	2° 0' 87	10° 1' 42	77130	26	16° 5' 73	13° 5' 66	77202	39	18° 4' 03	16° 5' 01
76915	17	4° 0' 13	5° 5' 06	76987*	48	13° 1' 53	7° 8' 06	77059	22	5° 5' 50	10° 0' 10	77131	23	17° 8' 06	13° 0' 18	77203	12	21° 7' 68	16° 8' 84
76916	14	4° 5' 46	5° 1' 66	76988	11	13° 7' 02	7° 1' 17	77060	32	7° 2' 27	10° 0' 82	77132	20	19° 0' 62	13° 0' 48	77204	23	22° 3' 35	16° 4' 84
76917	10	5° 0' 82	5° 2' 60	76989	41	14° 7' 94	7° 4' 60	77061	46	9° 5' 54	10° 3' 30	77133	20	19° 1' 62	13° 0' 46	77205	23	22° 6' 12	16° 2' 60
76918	20	5° 7' 37	5° 4' 15	76990	40	15° 5' 42	7° 2' 00	77062	26	10° 3' 01	10° 3' 66	77134	52	19° 6' 06	13° 0' 28	77206	14	23° 0' 52	16° 3' 63
76919	26	6° 4' 34	5° 4' 62	76991	13	16° 8' 93	7° 4' 06	77063	28	12° 5' 19	10° 1' 64	77135	30	20° 4' 03	13° 3' 84	77207	36	23° 5' 02	16° 3' 63
76920	32	7° 4' 31	5° 7' 67	76992	12	17° 0' 30	7° 6' 90	77064	20	14° 5' 50	10° 5' 51	77136	11	22° 1' 50	13° 0' 84	77208	25	23° 4' 90	16° 5' 38
76921	15	7° 9' 99	5° 0' 57	76993	13	20° 1' 14	7° 0' 58	77065	19	15° 7' 29	10° 3' 94	77137	20	23° 2' 06	13° 4' 58	77209	28	24° 6' 68	16° 4' 70
76922	16	8° 1' 58	5° 8' 42	76994	11	22° 2' 60	7° 8' 36	77066	15	17° 5' 24	10° 4' 17	77138	14	23° 6' 02	13° 5' 44	77210	10	24° 6' 66	16° 2' 32
76923	14	9° 3' 60	5° 2' 40	76995*	54	22° 8' 55	7° 8' 20	77067	36	20° 0' 50	10° 2' 02	77139*	61	0° 8' 92	14° 0' 58	77211	13	25° 4' 60	16° 8' 72
76924	14	10° 4' 42	5° 6' 81	76996	14	24° 1' 72	7° 2' 60	77068	16	20° 5' 78	10° 2' 46	77140	19	4° 7' 34	14° 7' 24	77212	43	27° 1' 10	17° 4' 18
76925	12	10° 6' 92	5° 6' 15	76997	14	24° 5' 90	7° 3' 50	77069	33	20° 9' 94	10° 7' 34	77141	12	5° 5' 56	14° 6' 10	77213	29	1° 6' 71	17° 4' 18
76926	10	10° 7' 74	5° 3' 24	76998	11	24° 9' 02	7° 3' 30	77070	14	21° 0' 06	10° 6' 18	77142	19	7° 5' 88	14° 5' 06	77214	17	3° 3' 64	17° 1' 65
76927	17	15° 3' 03	5° 9' 42	76999	40	24° 9' 48	7° 6' 36	77071	17	21° 4' 64	10° 2' 02	77143	20	10° 1' 22	14° 1' 80	77215	34	5° 1' 00	17° 6' 98
76928	26	16° 5' 14	5° 6' 12	77000	24	25° 6' 40	7° 0' 13	77072	19	21° 6' 04	10° 8' 55	77144	27	10° 1' 68	14° 4' 77	77216	12	5° 1' 00	17° 1' 65
76929	25	18° 4' 06	5° 5' 42	77001	10	1° 3' 78	8° 1' 80	77073	40	22° 2' 16	10° 8' 95	77145	11	12° 7' 91	14° 5' 18	77217	19	5° 9' 75	17° 6' 98
76930	47	18° 5' 70	5° 8' 60	77002	18	2° 5' 57	8° 2' 77	77074	11	22° 2' 60	10° 2' 83	77146	49	13° 1' 85	14° 5' 38	77218	15	6° 1' 58	17° 3' 74
76931	40	18° 6' 16	5° 1' 86	77003	10	2° 8' 54	8° 7' 36	77075	12	23° 9' 22	10° 5' 43	77147	14	15° 8' 12	14° 9' 79	77219	10	6° 4' 53	17° 1' 56
76932	13	19° 2' 64	5° 5' 69	77															

77238	21	1 358	18 544	77310	26	23 446	20 334	77382	26	10 694	23 796	77454	16	18 730	25 184	77541	28	9 150	2 074
77239	10	3 530	18 234	77311	24	23 600	20 806	77383	26	10 990	23 986	77455	10	19 188	25 813	77542	21	9 373	2 892
77240	20	3 678	18 100	77312	35	25 320	20 407	77384	28	11 354	23 474	77456	39	19 332	25 104	77543	10	10 110	2 447
77241	17	4 531	18 358	77313	12	25 444	20 880	77385	20	11 546	23 207	77457	40	19 675	25 718	77544	34	11 573	2 668
77242	10	6 213	18 889	77314	17	2 442	21 764	77386	40	12 467	23 470	77458	21	19 984	25 698	77545	34	12 169	2 868
77243	26	9 280	18 904	77315	20	3 210	21 744	77387	20	12 910	23 205	77459	29	20 170	25 774	77546	16	12 301	2 042
77244	28	9 915	18 316	77316	23	3 230	21 513	77388	14	13 473	23 390	77460	22	21 107	25 584	77547	32	13 574	2 190
77245	22	14 114	18 622	77317	49	3 345	21 855	77389	29	14 638	23 086	77461	13	21 690	25 382	77548	24	13 680	2 406
77246	17	15 252	18 801	77318	10	3 950	21 734	77390	19	15 786	23 804	77462	20	23 513	25 700	77549	24	16 420	2 790
77247	16	15 782	18 505	77319	14	4 784	21 364	77391	10	16 232	23 645	77463	41	25 038	25 610	77550	29	18 612	2 758
77248	27	17 412	18 476	77320	17	6 259	21 724	77392	27	16 424	23 585	77464	33	25 577	25 218	77551	13	19 630	2 880
77249	90	19 080	18 412	77321	26	9 555	21 329	77393	13	17 820	23 050					77552	49	19 739	2 402
77250*	83	19 180	18 493	77322	14	9 814	21 923	77394	40	18 240	23 056					77553	11	20 150	2 389
77251	27	19 654	18 974	77323	10	10 706	21 480	77395	35	18 457	23 434					77554	32	20 750	2 433
77252	20	20 980	18 295	77324	82	11 706	21 182	77396	10	18 510	23 140					77555*	46	22 758	2 538
77253	40	21 127	18 478	77325	46	11 825	21 875	77397	12	19 674	23 550					77556*	59	0 450	3 602
77254	39	21 277	18 921	77326	17	12 016	21 626	77398	38	21 216	23 102					77557	22	3 068	3 148
77255	29	22 138	18 454	77327	30	13 335	21 078	77399	25	23 156	23 920					77558	15	4 809	3 922
77256	40	23 345	18 347	77328	13	13 907	21 931	77400	16	23 582	23 210					77559	11	5 550	3 767
77257	16	23 554	18 180	77329	22	14 786	21 154	77401	11	24 080	23 107					77560	27	6 325	3 260
77258	10	23 680	18 262	77330	14	16 088	21 892	77402	13	24 441	23 668					77561	11	6 676	3 404
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77260	31	24 437	18 758	77332	27	17 610	21 956	77404	22	1 620	24 350					77563	38	10 190	3 892
77261	10	24 550	18 812	77333	12	18 095	21 170	77405	12	1 904	24 205					77564	35	10 955	3 304
77262	27	24 636	18 350	77334	15	18 820	21 810	77406	18	2 022	24 370					77565	10	11 119	3 162
77263	49	25 006	18 862	77335	22	20 490	21 278	77407	15	2 985	24 523					77566	30	11 680	3 536
77264	21	0 084	19 707	77336	22	22 418	21 232	77408	22	3 762	24 750					77567	25	13 508	3 092
77265	17	1 040	19 692	77337	22	22 596	21 375	77409	12	4 950	24 347					77568	27	13 850	3 952
77266	17	1 308	19 813	77338	10	23 723	21 940	77410	14	7 359	24 570					77569	15	16 220	3 080
77267	20	2 365	19 130	77339	31	24 582	21 594	77411	29	8 838	24 692					77570	16	16 234	3 970
77268	16	3 182	19 936	77340	11	24 600	21 673	77412	42	8 842	24 508					77571	14	16 525	3 350
77269	12	3 935	19 796	77341	28	25 208	21 264	77413	17	8 884	24 440					77572	18	17 660	3 054
77270	42	4 177	19 170	77342	20	25 686	21 124	77414	10	9 074	24 441					77573	23	19 320	3 390
77271	23	5 684	19 150	77343	19	0 355	22 342	77415	33	10 738	24 476					77574	23	19 802	3 520
77272	20	8 910	19 764	77344	12	1 030	22 646	77416	21	10 782	24 957					77575	29	20 118	3 043
77273	16	9 760	19 036	77345	14	1 515	22 680	77417	10	11 682	24 880					77576	16	20 170	3 920
77274	10	14 418	19 042	77346	18	1 737	22 366	77418	51	12 460	24 176					77577	23	20 882	3 908
77275	13	19 183	19 908	77347	25	1 762	22 787	77419	27	12 598	24 416					77578	16	21 346	3 945
77276	11	19 397	19 040	77348	24	2 266	22 778	77420	24	13 406	24 429					77579	39	23 258	3 490
77277	38	19 543	19 942	77349	12	3 192	22 192	77421	28	13 410	24 918					77580	28	25 102	3 410
77278	16	19 778	19 637	77350	22	3 267	22 340	77422	25	17 220	24 636					77581	25	25 152	3 666
77279	37	20 638	19 182	77351	21	4 204	22 678	77423	29	17 840	24 648					77582	15	25 278	3 522
77280*	92	22 364	19 322	77352	16	6 294	22 878	77424	14	18 564	24 066					77583	14	1 618	4 362
77281	15	22 880	19 087	77353	13	7 234	22 124	77425	31	19 512	24 691					77584	15	1 866	4 650
77282	13	24 177	19 863	77354	22	8 277	22 044	77426	29	21 060	24 628					77585	33	3 380	4 798
77283	26	0 008	20 536	77355	28	8 466	22 326	77427	10	21 339	24 028					77586	28	4 061	4 629
77284	12	0 468	20 274	77356	15	11 440	22 535	77428	17	21 683	24 296					77587	13	4 222	4 218
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77286	16	2 520	20 608	77358	15	13 609	22 827	77430	17	21 897	24 848					77589*	56	8 475	4 522
77287	16	5 109	20 579	77359	45	15 217	22 233	77431	24	21 980	24 500					77590	40	8 948	4 726
77288	16	5 472	20 053	77360	10	15 248	22 737	77432	22	22 640	24 150					77591	12	9 992	4 023
77289	16	6 358	20 020	77361	27	15 686	22 234	77433	12	23 024	24 948					77592	27	13 280	4 320
77290	19	6 570	20 486	77362	16	15 743	22 082	77434	11	23 041	24 330					77593	10	14 038	4 262
77291	15	7 564	20 664	77363	17	17 092	22 960	77435	12	24 287	24 988					77594*	67	14 188	4 668
77292	25	9 103	20 167	77364	32	17 442	22 010	77436	44	25 306	24 330					77595	16	16 068	4 679
77293	49	9 800	20 085	77365	53	17 510	22 523	77437	28	25 550	24 127					77596	10	16 723	4 244
77294	57	10 023	20 487	77366	28	17 574	22 590	77438	13	3 466	25 943					77597	37	17 062	4 354
77295	27	10 039	20 482	77367	15	17 802	22 668	77439	20	3 490	25 448					77598	16	17 090	4 482
77296	41	12 166	20 437	77368	16	19 810	22 143	77440	14	3 976	25 618					77599*	51	17 490	4 012
77297	14	14 150	20 220	77369	10	20 737	22 908	77441	11	4 285	25 144					77600	20	17 674	4 142
77298	40	15 500	20 916	77370	19	22 402	22 447	77442	27	6 194	25 652					77601	15	17 989	4 878
77299	29	16 374	20 090	77371	28	22 650	22 519	77443	13	9 185	25 544					77602	10	18 480	4 378
77300	23	17 550	20 588	77372	18	23 816	22 534	77444	14	9 550	25 848					77603	24	18 730	4 980
77301	10	17 876	20 937	77373	27	0 214	23 590	77445	28	10 116	25 866					77604*	48	19 028	4 286
77302	17	18 882	20 224	77374	45	1 100	23 700	77446	14	11 722	25 818					77605	10	19 744	4 536
77303	10	20 730	20 448	77375	44	1 770	23 595	77447	10	12 476	25 548					77606	10	20 483	4 558
77304	15	20 773	20 153	77376	11	2 390	23 297	77448	13	12 792	25 336					77607	15	20 847	4 322
77305	13	21 061	20 370	77377	30	3 467	23 036	77449	16	13 438	25 592					77608	17	23 266	4 258
77306	19	21 667	20 1																

77613	22	3°368	5°880	77685	16	18°424	7°460	77757	13	3°179	10°677	77829	17	1°428	13°908	77901	12	23°994	15°540
77614	41	3°559	5°768	77686	17	19°264	7°934	77758	10	3°938	10°644	77830	14	5°318	13°121	77902	31	24°013	15°758
77615	13	4°712	5°548	77687*	52	19°734	7°330	77759	22	4°140	10°466	77831	37	6°698	13°979	77903	31	25°666	15°500
77616	14	4°758	5°034	77688	11	20°176	7°660	77760	13	4°504	10°344	77832	13	7°142	13°852	77904	18	0°508	16°496
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78032	14	0-842	21-380	78104	14	14-336	24-972	78241	43	21-401	0-566	78241	43	21-401	0-566	78313	25	19-094	8-359
78033	30	2-828	21-572	78105	33	16-980	24-785	78242	29	20-624	0-772	78242	29	20-624	0-772	78314	21	21-782	8-278
78034	19	3-450	21-232	78106	10	17-251	24-842	78243	60	22-250	0-644	78243	60	22-250	0-644	78315	17	22-633	8-734
78035	16	3-928																	

78326	45	19°783	9°199	78398	15	10°964	14°050	78470	16	8°314	19°809	78542	26	14°909	23°128	78607	21	11°420	0°666
78327	15	22°642	9°882	78399	29	12°254	14°951	78471	14	8°808	19°916	78543	16	15°128	23°304	78608	28	12°526	0°145
78328	19	24°040	9°714	78400	12	13°430	14°792	78472	30	9°375	19°563	78544	26	16°822	23°860	78609	13	13°864	0°782
78329	29	0°558	10°022	78401	14	15°280	14°620	78473	42	11°072	19°914	78545	24	17°470	23°273	78610	17	14°712	0°576
78330	35	7°260	10°020	78402	28	20°854	14°522	78474	34	15°630	19°474	78546	32	22°962	23°438	78611	16	15°593	0°057
78331	15	7°444	10°850	78403	31	21°990	14°700	78475	43	15°044	19°720	78547	11	23°079	23°080	78612	30	3°388	1°594
78332	10	8°435	10°696	78404	27	23°014	14°925	78476	13	16°356	19°138	78548	19	0°586	24°866	78613	23	4°200	1°170
78333	11	8°466	10°424	78405	10	23°400	14°350	78477	11	16°472	19°080	78549	17	3°016	24°953	78614	13	5°736	1°983
78334	21	10°030	10°198	78406	22	23°899	14°958	78478	10	19°802	19°085	78550	30	3°064	24°982	78615	23	8°822	1°390
78335	14	10°069	10°816	78407	25	24°575	14°866	78479	27	21°440	19°670	78551	17	6°700	24°986	78616	42	10°766	1°346
78336	18	11°300	10°116	78408	22	25°094	14°370	78480	10	21°618	19°126	78552	23	7°882	24°880	78617	18	20°264	1°172
78337	15	14°940	10°728	78409	14	25°462	14°192	78481	17	25°010	19°331	78553	22	8°923	24°226	78618	36	24°220	1°652
78338	21	17°530	10°290	78410	13	25°870	14°971	78482	37	1°543	20°040	78554	16	9°094	24°586	78619	30	24°984	1°866
78339	12	21°226	10°112	78411	25	0°563	15°052	78483	14	1°800	20°990	78555	10	12°288	24°231	78620	29	1°438	2°788
78340	10	21°440	10°040	78412	45	0°865	15°164	78484	35	2°650	20°493	78556	25	12°568	24°108	78621	13	2°752	2°206
78341	17	24°783	10°200	78413	10	0°874	15°570	78485	24	3°636	20°541	78557	27	13°770	24°885	78622	17	8°722	2°466
78342	10	25°958	10°478	78414	20	4°570	15°408	78486	28	4°266	20°482	78558	14	16°644	24°777	78623	17	11°361	2°458
78343	18	3°580	11°436	78415	14	6°176	15°510	78487	26	4°442	20°390	78559	20	19°757	24°350	78624	20	13°866	2°484
78344	26	11°525	11°430	78416	12	7°120	15°810	78488	28	4°500	20°050	78560	26	21°260	24°550	78625	16	14°540	2°918
78345	27	12°422	11°640	78417	18	9°160	15°139	78489	50	6°252	20°510	78561	26	24°866	24°440	78626	32	17°194	2°533
78346	138	13°832	11°132	78418	27	10°758	15°896	78490	26	6°304	20°602	78562	34	25°762	24°836	78627	23	20°630	2°340
78347	18	14°319	11°102	78419	12	11°683	15°964	78491	17	6°799	20°250	78563	20	25°948	24°272	78628	13	22°326	3°368
78348	12	16°272	11°932	78420	17	13°060	15°070	78492	40	12°490	20°930	78564	11	0°141	25°194	78629	15	0°586	3°283
78349	12	17°390	11°124	78421	20	13°593	15°613	78493	12	13°970	20°580	78565	17	0°855	25°765	78630	17	1°452	3°598
78350	32	17°411	11°578	78422	43	15°880	15°750	78494	17	16°766	20°371	78566	14	2°271	25°168	78631	42	6°862	3°308
78351	31	24°680	11°290	78423	10	17°150	15°430	78495	13	18°884	20°800	78567	10	3°730	25°226	78632	23	9°378	3°554
78352	11	0°880	12°444	78424	41	21°368	15°060	78496	18	19°680	20°268	78568	12	5°298	25°145	78633	37	11°057	3°522
78353	29	0°985	12°228	78425	14	22°492	15°160	78497	10	22°348	20°632	78569	30	5°684	25°140	78634	38	13°720	3°600
78354	16	4°141	12°600	78426	42	23°381	15°760	78498	29	23°052	20°226	78570	19	7°250	25°898	78635	34	21°726	3°096
78355	26	5°669	12°717	78427	49	23°916	15°590	78499	16	24°151	20°296	78571	15	10°204	25°400	78636	42	0°078	4°034
78356	17	6°906	12°103	78428	27	24°909	16°162	78500	14	1°020	21°870	78572	25	10°782	25°250	78637	35	5°522	4°477
78357	12	7°400	12°017	78429	12	3°144	16°642	78501	22	4°070	21°145	78573	17	11°472	25°011	78638	18	5°764	4°632
78358	57	9°423	12°234	78430	45	5°560	16°490	78502	19	5°393	21°074	78574	12	14°272	25°821	78639	32	6°018	4°838
78359	45	12°780	12°658	78431	17	7°243	16°744	78503	17	9°519	21°300	78575	23	14°854	25°316	78640	28	8°356	4°412
78360	19	12°860	12°160	78432	30	8°854	16°446	78504	12	12°530	21°351	78576	13	16°220	25°944	78641	74	15°180	4°335
78361	16	14°490	12°144	78433	22	10°300	16°602	78505	22	12°890	21°244	78577	19	16°934	25°152	78642	23	17°002	4°623
78362	19	15°325	12°510	78434	25	12°236	16°584	78506	20	14°879	21°576	78578	20	18°797	25°228	78643	26	17°539	4°166
78363	10	15°864	13°370	78435	51	16°794	16°211	78507	25	15°186	21°907	78579	67	18°877	25°540	78644	29	18°062	4°074
78364	22	18°684	12°104	78436	27	17°401	16°115	78508	21	21°133	21°736	78580	22	18°948	25°088	78645	22	18°218	4°418
78365	22	18°814	12°290	78437	21	19°849	16°124	78509	31	21°094	21°640	78581	17	21°710	25°834	78646	24	23°645	4°104
78366	17	19°318	12°583	78438	14	20°860	16°342	78510	28	22°172	21°970	78582	16	22°194	25°958	78647	18	1°620	5°976
78367	30	19°407	12°161	78439	10	23°800	16°342	78511	12	23°580	21°545	78583	10	22°413	25°678	78648	20	4°742	5°172
78368	43	21°918	12°512	78440	10	23°960	16°780	78512	21	1°112	22°203	78584	24	23°858	25°862	78649	17	5°593	5°690
78369	16	23°708	12°061	78441	15	24°130	16°450	78513	26	2°148	22°878	78585	20	25°314	25°250	78650	44	6°238	5°367
78370	17	24°750	12°721	78442	17	24°430	16°615	78514	32	2°692	22°510					78651	17	6°894	5°408
78371	11	3°118	13°346	78443	27	25°080	16°110	78515	24	4°326	22°558					78652	16	8°714	5°394
78372	29	4°310	13°584	78444	15	0°710	17°058	78516	62	6°164	22°572					78653	12	8°952	5°855
78373	12	6°840	13°163	78445	12	8°680	17°485	78517	19	7°344	22°572					78654	15	9°492	5°852
78374	32	7°474	13°089	78446	16	10°960	17°203	78518	26	7°416	22°600					78655	18	10°656	5°071
78375	14	8°310	13°314	78447	18	16°200	17°782	78519	24	9°574	22°749					78656	23	11°402	5°366
78376	18	8°866	13°121	78448	31	17°540	17°826	78520	12	9°880	22°972					78657	19	15°442	5°386
78377	24	9°153	13°522	78449	12	19°881	17°372	78521	28	13°442	22°160					78658	32	21°794	5°586
78378	20	9°908	13°410	78450	52	20°177	17°738	78522	30	14°560	22°180					78659	15	22°335	5°272
78379	41	11°512	13°960	78451	28	0°730	18°300	78523	15	15°560	22°814					78660	38	23°800	5°408
78380	67	13°814	13°797	78452	16	2°678	18°950	78524	27	16°167	22°614					78661	16	24°369	5°315
78381	45	14°485	13°998	78453	16	3°387	18°175	78525	11	16°452	22°570					78662	28	2°749	6°054
78382	27	14°510	13°784	78454	17	4°451	18°926	78526	17	16°502	22°680					78663	38	6°459	6°658
78383	43	14°772	13°207	78455	14	5°898	18°216	78527	14	18°100	22°050					78664	26	7°124	6°878
78384	26	15°750	13°720	78456	14	6°832	18°423	78528	28	21°028	22°340					78665	24	7°270	6°976
78385	14	16°976	13°950	78457	28	7°358	18°972	78529	28	22°490	22°715					78666	28	12°318	6°996
78386	45	17°358	13°884	78458	16	9°467	18°714	78530	28	23°742	22°180					78667	39	17°042	6°274
78387	31	17°376	13°087	78459	18	10°108	18°714	78531	14	7°298	23°174					78668	15	18°836	6°010
78388	25	17°522	13°520	78460	31	10°472	18°944	78532	12	7°330	23°641					78669	24	18°940	6°798
78389	18	20°480	13°890	78461	13	13°222	18°430	78533	21	8°160	23°350					78670	12	19°751	6°862
78390	10	23°650	13°170	78462	64	14°791													



78679	26	14°34'	7°00'	78751	14	16°67'	14°748	78823	21	5°57'	21°596	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78956	15	2°574	4°043
78680	17	14°98'	7°473	78752	13	16°730	14°398	78824	26	6°046	21°974			78957	23	4°878	4°897
78681	22	16°044	7°456	78753	15	17°748	14°625	78825	17	6°268	21°338			78958	19	11°096	4°186
78682	17	16°707	7°905	78754	21	20°036	14°632	78826	58	12°394	21°783			78959	16	12°801	4°484
78683	26	16°980	7°635	78755	20	21°815	14°736	78827	22	13°084	21°125	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78960	22	13°755	4°082
78684	18	17°764	7°628	78756	31	1°032	15°028	78828	36	14°314	21°274			78961	24	13°890	4°778
78685	18	19°005	7°926	78757*	54	1°944	15°676	78829	32	17°445	21°974			78962	21	14°708	4°573
78686	37	21°477	7°744	78758*	40	6°394	15°922	78830	36	22°805	21°328			78963*	43	23°584	4°797
78687	21	22°034	7°907	78759	20	7°243	15°183	78831	16	23°802	21°292	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78964	18	25°660	4°868
78688*	43	23°858	7°426	78760	28	8°270	15°980	78832	16	24°680	21°648			78965	14	0°436	5°800
78689	38	25°067	7°590	78761	28	8°568	15°326	78833	34	0°334	22°090			78966	34	1°907	5°937
78690*	88	4°722	8°746	78762	22	17°322	15°250	78834	29	0°576	22°827			78967	20	2°481	5°841
78691	17	5°418	8°838	78763	39	19°028	15°592	78835	30	1°906	22°266	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78968	18	3°392	5°412
78692	14	6°944	8°893	78764	38	20°680	15°116	78836	32	6°886	22°186			78969	41	4°284	5°870
78693	30	9°250	8°695	78765	37	23°006	15°845	78837	30	11°474	22°194			78970	32	5°000	5°011
78694	15	9°674	8°868	78766	21	24°042	15°724	78838	13	14°034	22°946			78971	16	11°025	5°586
78695	16	10°076	8°616	78767	16	24°350	15°412	78839	22	15°892	22°776	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78972	12	11°259	5°450
78696	35	10°698	8°250	78768	16	24°712	15°441	78840	11	16°291	22°614			78973	17	12°150	5°114
78697	11	11°776	8°255	78769	14	24°82	16°688	78841	29	16°734	22°198			78974	12	13°596	5°482
78698	26	14°269	8°694	78770	21	3°118	16°171	78842	24	18°658	22°046			78975	12	17°074	5°096
78699	27	15°042	8°097	78771	16	4°741	16°836	78843	34	20°096	22°020	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78976	16	18°069	5°774
78700	12	17°150	8°550	78772	38	5°709	16°766	78844	16	21°477	22°530			78977	14	19°974	5°154
78701	26	17°264	8°418	78773	21	8°535	16°329	78845	22	24°186	22°882			78978	10	20°100	5°306
78702	23	20°393	8°574	78774*	56	11°643	16°282	78846	38	24°939	22°481			78979	25	23°099	5°920
78703	22	23°084	8°186	78775	11	12°354	16°687	78847	33	25°878	22°684	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78980*	41	24°394	5°572
78704*	56	24°856	8°794	78776	24	14°860	16°224	78848	35	1°152	23°539			78981	15	1°206	6°910
78705	30	5°381	9°536	78777	25	16°330	16°962	78849	32	5°800	23°978			78982	19	1°930	6°992
78706	37	6°744	9°304	78778	27	17°250	16°506	78850	12	10°604	23°737			78983	15	1°985	6°207
78707	11	15°576	9°755	78779	21	17°781	16°396	78851	22	15°444	23°235	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78984	33	4°458	6°378
78708	32	18°517	9°332	78780*	57	21°208	16°734	78852	17	16°945	23°632			78985	35	5°112	6°360
78709	18	22°476	9°278	78781	24	24°139	16°956	78853	21	18°106	23°838			78986	22	5°100	6°049
78710	16	7°677	10°617	78782	28	24°432	16°430	78854	18	24°215	23°380			78987	10	6°822	6°699
78711	23	9°430	10°600	78783	21	5°650	17°204	78855	30	24°460	23°058	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78988	35	9°382	6°792
78712	32	13°364	10°975	78784	37	9°892	17°754	78856	37	24°962	23°156			78989	13	10°906	6°792
78713*	40	14°377	10°394	78785	16	10°324	17°882	78857	32	25°332	23°270			78990	38	13°553	6°766
78714	18	14°436	10°456	78786	38	10°774	17°277	78858	24	3°074	24°504			78991	10	18°220	6°300
78715	40	14°694	10°592	78787	39	14°443	17°872	78859	37	3°978	24°883	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78992	22	20°118	6°337
78716	20	20°292	10°625	78788	25	15°190	17°094	78860	21	4°152	24°316			78993	18	22°518	6°684
78717	12	22°500	10°048	78789*	50	15°657	17°919	78861	26	7°151	24°002			78994	25	0°256	7°132
78718	23	23°018	10°865	78790	17	16°604	17°586	78862	17	10°756	24°684			78995	43	1°969	7°951
78719	28	25°814	10°884	78791	37	16°941	17°068	78863	24	10°974	24°112	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		78996	15	3°488	7°652
78720	32	2°621	11°302	78792*	38	19°238	17°806	78864	32	11°478	24°589			78997	12	6°696	7°992
78721	38	4°134	11°791	78793	24	24°720	17°980	78865	34	14°564	24°550			78998	23	7°982	7°732
78722	34	10°430	11°114	78794	26	25°130	17°994	78866	17	15°160	24°340			78999	34	8°385	7°860
78723	34	17°958	11°946	78795	20	0°643	18°460	78867	25	15°815	24°535	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		79000	40	8°528	7°155
78724	17	19°744	11°748	78796	12	3°229	18°177	78868	26	17°941	24°851			79001	14	11°275	7°990
78725	18	21°908	11°906	78797	16	8°600	18°675	78869	23	19°260	24°600			79002	29	12°071	7°366
78726*	58	23°625	11°404	78798	14	12°528	18°196	78870	19	2°098	25°946			79003	10	12°371	7°740
78727	35	24°965	11°800	78799	22	14°286	18°046	78871	12	3°540	25°310	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		79004	10	13°106	7°196
78728	17	5°014	12°450	78800*	52	16°940	18°158	78872	28	4°815	25°482			79005	15	13°808	7°232
78729*	40	5°248	12°448	78801	17	18°738	18°262	78873	24	5°184	25°260			79006	20	17°032	7°632
78730	16	8°550	12°994	78802	13	21°812	18°646	78874	18	5°351	25°045			79007	10	17°339	7°134
78731	19	7°306	12°144	78803	27	23°114	18°636	78875	48	7°846	25°106	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>		79008	34	19°350	7°014
78732	20	8°294	12°396	78804	22	23°468	18°174	78876	37	8°934	25°434			79009	26	19°426	7°682
78733	30	9°256	12°586	78805	39	24°615	18°050	78877	34	12°376	25°716			79010	15	19°686	7°422
78734	10	11°106	12°345	78806	18	3°114	19°392	78878	34	12°664	25°914			79011	12	19°700	7°283
78735	19	15°157	12°492	78807	34	7°388	19°144	78879	28	13°460	25°133	<b>R.A. 20<sup>h</sup> 56<sup>m</sup></b> Plate 1733; 1920 Nov. 13. <i>Provisional Constants.</i> A B C -01750 +00965 -2332 D E F -00951 -01735 -1627 Mag. = 16-0 -0.94√ <i>a</i>					



79028	17	14°734	8°756	79100	11	11°945	12°724	79172	18	19°790	15°611	79244	26	6°578	19°704	79316	26	9°314	22°124
79029	15	16°936	8°426	79101	15	15°880	12°710	79173	27	21°051	15°409	79245	19	7°451	19°683	79317	22	10°602	22°002
79030	11	17°600	8°596	79102	17	16°339	12°278	79174	25	21°355	15°803	79246	20	9°430	19°122	79318	29	11°706	22°530
79031	34	17°789	8°526	79103	25	16°506	12°658	79175	26	22°360	15°247	79247	10	9°670	19°965	79319	32	11°760	22°230
79032	36	19°652	8°914	79104	34	16°891	12°814	79176	18	25°635	15°319	79248	11	11°120	19°364	79320	11	12°022	22°580
79033	39	21°180	8°142	79105	38	17°629	12°130	79177	35	1°133	16°373	79249	36	12°600	19°894	79321	26	12°611	22°001
79034	40	23°345	8°050	79106	22	18°350	12°442	79178	20	2°168	16°248	79250	34	13°700	19°167	79322	10	13°756	22°062
79035	22	0°594	9°807	79107	11	18°618	12°520	79179	30	2°558	16°956	79251	23	13°995	19°824	79323	16	14°099	22°314
79036	12	0°820	9°015	79108	20	18°900	12°700	79180	18	4°435	16°296	79252	34	16°372	19°298	79324	18	14°250	22°594
79037	12	2°778	9°600	79109	18	19°157	12°901	79181	22	5°070	16°300	79253	34	17°964	19°078	79325	10	15°740	22°550
79038	44	2°970	9°720	79110	28	20°534	12°031	79182	20	5°836	16°019	79254	35	19°580	19°138	79326	14	15°744	22°768
79039	27	5°742	9°310	79111	12	21°747	12°930	79183	16	6°006	16°826	79255	40	19°896	19°222	79327	19	17°075	22°559
79040	32	6°146	9°950	79112	34	22°220	12°190	79184	27	6°160	16°269	79256	11	21°155	19°421	79328	34	18°947	22°710
79041	27	10°095	9°820	79113	23	23°642	12°074	79185	11	8°381	16°677	79257	13	21°908	19°145	79329	12	19°086	22°352
79042	34	10°151	9°824	79114	35	23°903	12°828	79186	25	8°049	16°928	79258	13	22°707	19°600	79330	29	19°420	22°394
79043	10	12°072	9°264	79115	10	24°750	12°313	79187	12	9°060	16°498	79259	37	22°715	19°880	79331	35	19°446	22°530
79044	30	13°486	9°153	79116	32	25°440	12°282	79188	31	10°594	16°372	79260	31	24°870	19°351	79332	12	20°746	22°488
79045	44	13°670	9°240	79117	13	25°572	12°094	79189	10	10°684	16°669	79261	17	25°161	19°632	79333	10	21°296	22°252
79046	19	17°568	9°040	79118	12	3°084	13°651	79190	10	13°800	16°970	79262	10	4°633	20°383	79334	10	21°776	22°630
79047	16	17°594	8°850	79119	32	4°509	13°826	79191	12	14°678	16°502	79263	10	4°655	20°197	79335	12	22°546	22°804
79048	29	19°312	9°049	79120	12	6°041	13°148	79192	11	14°788	16°362	79264	18	4°748	20°594	79336	12	25°478	23°408
79049	16	20°708	9°649	79121	10	7°512	13°760	79193	44	16°154	16°740	79265	32	5°093	20°420	79337	26	2°326	23°968
79050	12	21°580	9°621	79122	16	7°606	13°560	79194	20	18°591	16°476	79266	28	5°643	20°598	79338	21	2°356	23°408
79051	12	22°053	9°029	79123	35	13°350	13°419	79195	29	18°808	16°616	79267	10	6°504	20°628	79339	30	2°600	23°586
79052	28	22°350	9°039	79124	15	13°849	13°089	79196	29	19°964	16°759	79268	29	6°932	20°595	79340	37	3°074	23°066
79053	18	22°864	9°471	79125	21	15°769	13°949	79197	15	24°058	16°172	79269	18	9°176	20°316	79341	34	3°100	23°680
79054	12	23°470	9°115	79126	38	18°454	13°786	79198	15	24°512	16°860	79270	10	11°489	20°079	79342	29	4°018	23°206
79055	11	25°072	9°712	79127	32	19°323	13°279	79199	11	24°851	16°860	79271	10	8°866	20°158	79343	18	5°299	23°539
79056	15	0°618	10°578	79128	34	19°761	13°726	79200	18	2°269	17°486	79272	25	12°163	20°188	79344	16	5°545	23°504
79057	12	1°378	10°584	79129	10	21°668	13°552	79201	13	4°267	17°807	79273	29	14°380	20°940	79345	10	7°995	23°376
79058	12	1°832	10°382	79130	14	21°772	13°877	79202	29	4°301	17°900	79274	40	14°970	20°820	79346	11	9°066	23°288
79059	35	10°391	10°578	79131	20	22°330	13°050	79203	12	5°491	17°509	79275	19	15°370	20°104	79347	10	9°695	23°376
79060	43	11°287	10°608	79132	12	22°786	13°952	79204	34	6°135	17°936	79276	13	16°070	20°832	79348	36	10°066	23°266
79061	11	11°475	10°100	79133	33	23°272	13°402	79205	11	7°095	17°036	79277	25	16°660	20°826	79349	12	10°704	23°572
79062	42	13°851	10°225	79134	12	24°716	13°160	79206	12	9°216	17°242	79278	40	18°455	20°680	79350	40	10°704	23°572
79063	17	14°345	10°874	79135	12	0°738	14°570	79207	15	10°696	17°617	79279	16	18°660	20°579	79351	39	12°987	23°970
79064	14	14°798	10°862	79136	13	1°364	14°500	79208	10	12°140	17°577	79280	11	18°852	20°073	79352	18	14°072	23°466
79065	15	15°859	10°350	79137	26	1°780	14°166	79209	18	12°228	17°832	79281	20	19°465	20°628	79353	12	16°182	23°710
79066	30	16°740	10°735	79138	16	3°500	14°133	79210	28	14°758	17°809	79282	16	19°614	20°779	79354	13	17°520	23°612
79067	25	17°852	10°612	79139	32	3°680	14°120	79211	14	16°300	17°572	79283	20	21°901	20°158	79355	35	20°094	23°134
79068	12	22°186	10°834	79140	15	6°039	14°606	79212	29	17°307	17°420	79284	28	22°150	20°850	79356	15	20°720	23°835
79069	10	23°809	10°232	79141	10	9°826	14°468	79213	27	18°282	17°182	79285	24	22°989	20°490	79357	38	21°160	23°041
79070	13	24°755	10°957	79142	16	12°102	14°404	79214	10	21°914	17°679	79286	23	23°090	20°270	79358	20	22°976	23°762
79071	31	1°136	11°394	79143	11	12°350	14°468	79215	19	22°070	17°038	79287	17	23°824	20°740	79359	29	23°216	23°694
79072	51	1°739	11°034	79144	10	12°786	14°575	79216	10	22°215	17°340	79288	36	24°162	20°558	79360	11	24°570	23°566
79073	14	1°772	11°202	79145	10	12°942	14°512	79217	10	22°815	18°140	79289	38	25°391	20°504	79361	12	25°375	23°142
79074	10	2°726	11°620	79146	31	14°595	14°404	79218	29	1°507	18°700	79290	13	0°974	21°090	79362	10	1°299	24°868
79075	28	3°935	11°410	79147	15	16°992	14°579	79219	37	2°745	18°575	79291	30	1°000	21°856	79363	14	2°460	24°314
79076	13	6°584	11°141	79148	17	17°865	14°406	79220	26	2°849	18°504	79292	27	1°086	21°270	79364	14	3°560	24°892
79077	12	7°524	11°081	79149	32	18°934	14°460	79221	33	3°258	18°514	79293	16	2°028	21°817	79365	18	13°750	24°338
79078	10	8°301	11°097	79150	21	20°449	14°712	79222	21	5°347	18°350	79294	10	2°354	21°533	79366	12	13°826	24°086
79079	16	10°409	11°662	79151	20	21°107	14°952	79223	22	5°915	18°048	79295	20	5°065	21°216	79367	12	16°325	24°304
79080	24	17°015	11°852	79152	35	21°600	14°233	79224	18	6°345	18°502	79296	10	6°930	21°172	79368	44	17°778	24°656
79081	44	17°105	11°652	79153	10	22°666	14°734	79225	12	6°960	18°299	79297	42	8°442	21°020	79369	12	21°018	24°166
79082	14	19°619	11°328	79154	10	22°922	14°388	79226	24	7°344	18°676	79298	13	8°978	21°880	79370	12	21°312	24°600
79083	10	20°250	11°220	79155	26	24°340	14°825	79227	10	8°176	18°327	79299	23	9°080	21°358	79371	10	21°578	24°443
79084	31	20°543	11°365	79156	32	25°154	14°376	79228	22	11°726	18°777	79300	30	10°578	21°502	79372	10	23°115	24°600
79085	11	22°625	11°505	79157	21	2°477	15°938	79229	16	13°043	18°768	79301	14	10°620	21°640	79373	13	23°670	24°648
79086	23	22°870	11°196	79158	18	2°840	15°968	79230	12	13°250	18°984	79302	23	13°150	21°382	79374	20	24°952	24°492
79087	20	25°062	11°721	79159	25	4°617	15°720	79231	10	13°574	18°677	79303	28	16°540	21°500	79375	16	25°510	24°695
79088	12	0°025	12°440	79160	10	8°070	15°817	79232	20	14°228	18°475	79304	15	16°561	21°788	79376	10	6°171	25°086
79089	43	0°422	12°822	79161	10	9°139	15°832	79233	10	14°568	18°356	79305	12	16°795	21°099	793			

79388	32	23°19'	25°41'	79446	27	21°33'	2°20'	79518	24	13°27'	6°01'	79590	24	9°87'	10°30'	79662	22	15°54'	14°43'
79389	14	23°87'	25°06'	79447	40	22°31'	2°02'	79519	24	14°57'	6°15'	79591	20	10°09'	10°34'	79663	18	17°08'	14°95'
79390	17	24°18'	25°04'	79448	14	2°14'	3°55'	79520	18	16°44'	6°55'	79592	25	10°82'	10°06'	79664	20	18°56'	14°36'
79391	10	25°06'	25°38'	79449	15	7°108'	3°28'	79521	18	18°759'	6°032'	79593	19	14°768'	10°207'	79665	16	20°476'	14°650'
				79450	12	8°695'	3°744'	79522	12	20°263'	6°244'	79594	17	17°446'	10°341'	79666	40	20°502'	14°735'
				79451	17	8°883'	3°415'	79523	13	20°356'	6°732'	79595	12	17°616'	10°549'	79667	14	21°845'	14°439'
				79452	31	9°450'	3°320'	79524	24	21°088'	6°470'	79596	19	18°710'	10°818'	79668	24	22°231'	14°540'
				79453	21	11°215'	3°881'	79525	25	23°394'	6°983'	79597	40	19°014'	10°065'	79669	15	24°255'	14°826'
				79454	18	11°286'	3°852'	79526	17	24°259'	6°095'	79598	23	19°990'	10°408'	79670	11	25°494'	14°344'
				79455	23	12°550'	3°660'	79527	34	25°353'	6°496'	79599	13	20°774'	10°051'	79671	20	25°820'	14°378'
				79456	24	14°114'	3°758'	79528	50	0°256'	7°916'	79600	26	21°741'	10°520'	79672	19	25°844'	14°127'
				79457	13	15°036'	3°688'	79529	15	0°603'	7°018'	79601	40	25°095'	10°618'	79673	20	0°578'	15°580'
				79458	16	15°157'	3°740'	79530	20	3°176'	7°465'	79602	28	0°335'	11°172'	79674	19	2°550'	15°128'
				79459	10	17°801'	3°516'	79531	20	3°485'	7°704'	79603	20	1°024'	11°524'	79675	19	3°853'	15°600'
				79460	14	19°188'	3°740'	79532	16	3°676'	7°384'	79604	15	2°909'	11°255'	79676	24	6°194'	15°612'
				79461	26	20°239'	3°954'	79533	16	4°705'	7°599'	79605	14	6°622'	11°882'	79677	12	7°991'	15°527'
				79462	25	20°272'	3°730'	79534	13	6°770'	7°960'	79606	34	6°936'	11°684'	79678	12	8°944'	15°352'
				79463	24	20°424'	3°748'	79535	35	7°686'	7°002'	79607	11	7°112'	11°446'	79679	11	11°209'	15°812'
				79464	32	21°074'	3°570'	79536	140	9°444'	7°854'	79608	22	8°900'	11°426'	79680	24	11°424'	15°712'
				79465	15	0°758'	4°288'	79537	19	9°650'	7°764'	79609	14	11°552'	11°218'	79681	20	12°485'	15°741'
				79466	10	1°720'	4°106'	79538	14	9°708'	7°760'	79610	25	12°590'	11°428'	79682	11	15°486'	15°370'
				79467	12	4°177'	4°753'	79539	19	12°675'	7°024'	79611	11	15°251'	11°312'	79683	12	16°798'	15°294'
				79468	13	4°540'	4°506'	79540	23	12°787'	7°610'	79612	13	16°200'	11°555'	79684	17	17°431'	15°664'
				79469	28	5°125'	4°856'	79541	14	14°146'	7°320'	79613	16	16°555'	11°200'	79685	19	18°161'	15°998'
				79470	45	5°445'	4°350'	79542	22	14°936'	7°767'	79614	11	19°382'	11°650'	79686	12	18°704'	15°522'
				79471	14	6°962'	4°086'	79543	12	15°444'	7°270'	79615	37	20°330'	11°932'	79687	15	19°390'	15°294'
				79472	15	7°268'	4°902'	79544	10	16°226'	7°326'	79616	22	24°035'	11°091'	79688	15	19°405'	15°064'
				79473	15	7°748'	4°944'	79545	15	16°205'	7°624'	79617	22	25°564'	11°450'	79689	16	21°138'	15°785'
				79474	15	7°789'	4°399'	79546	26	18°450'	7°465'	79618	38	0°392'	12°526'	79690	15	22°604'	15°328'
				79475	19	10°355'	4°774'	79547	38	18°932'	7°246'	79619	20	1°811'	12°380'	79691	17	22°954'	15°714'
				79476	15	10°885'	4°174'	79548	14	19°014'	7°478'	79620	10	2°920'	12°611'	79692	17	23°228'	15°209'
				79477	14	11°320'	4°106'	79549	16	19°340'	7°286'	79621	25	3°610'	12°570'	79693	19	23°416'	15°504'
				79478	20	12°173'	4°420'	79550	35	21°935'	7°595'	79622	11	4°130'	12°086'	79694	16	23°446'	15°157'
				79479	21	13°282'	4°635'	79551	40	1°449'	8°369'	79623	14	4°644'	12°805'	79695	14	24°290'	14°478'
				79480	36	13°664'	4°005'	79552	13	3°624'	8°466'	79624	16	6°914'	12°955'	79696	12	3°505'	16°526'
				79481	19	15°032'	4°885'	79553	15	3°757'	8°232'	79625	12	13°355'	12°045'	79697	15	5°896'	16°316'
				79482	14	16°188'	4°466'	79554	11	4°486'	8°672'	79626	34	13°504'	12°422'	79698	38	6°036'	16°112'
				79483	15	16°692'	4°964'	79555	12	7°700'	8°396'	79627	20	15°534'	12°847'	79699	16	7°710'	16°300'
				79484	14	17°748'	4°672'	79556	34	7°908'	8°022'	79628	11	16°804'	12°060'	79700	42	10°334'	16°813'
				79485	19	19°386'	4°205'	79557	18	11°572'	8°531'	79629	19	17°345'	12°333'	79701	14	11°535'	16°778'
				79486	28	21°715'	4°455'	79558	13	13°291'	8°506'	79630	21	17°740'	12°275'	79702	10	15°180'	16°750'
				79487	18	23°628'	4°855'	79559	16	13°490'	8°522'	79631	32	21°562'	12°935'	79703	16	17°256'	16°440'
				79488	22	23°976'	4°518'	79560	15	14°054'	8°490'	79632	22	21°626'	12°766'	79704	13	17°401'	16°668'
				79489	12	0°138'	5°128'	79561	14	15°000'	8°698'	79633	18	0°513'	13°392'	79705	26	17°770'	16°744'
				79490	40	1°636'	5°114'	79562	19	15°792'	8°776'	79634	24	1°460'	13°722'	79706	20	18°874'	16°125'
				79491	40	2°458'	5°878'	79563	15	18°916'	8°283'	79635	15	1°724'	13°241'	79707	45	19°284'	16°093'
				79492	18	3°716'	5°152'	79564	16	18°918'	8°223'	79636	33	2°082'	13°136'	79708	18	19°737'	16°240'
				79493	24	4°205'	5°026'	79565	18	19°248'	8°020'	79637	12	2°902'	13°458'	79709	18	21°752'	16°622'
				79494	15	5°230'	5°011'	79566	21	20°626'	8°425'	79638	18	4°375'	13°560'	79710	15	0°318'	17°376'
				79495	33	8°444'	5°522'	79567	13	21°565'	8°224'	79639	40	7°715'	13°502'	79711	49	4°272'	17°512'
				79496	19	8°760'	5°500'	79568	40	21°835'	8°020'	79640	16	8°726'	13°362'	79712	11	5°678'	17°315'
				79497	18	8°915'	5°025'	79569	20	25°575'	8°885'	79641	11	8°782'	13°839'	79713	15	5°755'	17°844'
				79498	30	9°146'	5°129'	79570	14	0°181'	9°848'	79642	12	8°826'	13°685'	79714	29	6°278'	17°914'
				79499	14	9°370'	5°066'	79571	22	0°470'	9°373'	79643	71	9°622'	13°636'	79715	24	6°490'	17°115'
				79500	11	9°520'	5°152'	79572	13	0°995'	9°800'	79644	25	10°916'	13°588'	79716	40	6°514'	17°115'
				79501	21	11°764'	5°288'	79573	12	1°593'	9°432'	79645	32	11°756'	13°794'	79717	15	8°844'	17°945'
				79502	10	11°874'	5°110'	79574	12	4°101'	9°886'	79646	42	16°060'	13°555'	79718	11	12°196'	17°171'
				79503	20	15°207'	5°598'	79575	21	4°676'	9°464'	79647	25	18°726'	13°216'	79719	15	12°858'	17°528'
				79504	21	15°508'	5°456'	79576	14	7°552'	9°508'	79648	16	18°843'	13°125'	79720	28	14°190'	17°951'
				79505	21	15°770'	5°396'	79577	20	8°528'	9°905'	79649	19	18°850'	13°274'	79721	25	17°589'	17°245'
				79506	24	17°988'	5°050'	79578	25	9°440'	9°689'	79650	14	20°395'	13°742'	79722	14	17°790'	17°108'
				79507	57	20°597'	5°690'	79579	24	14°312'	9°160'	79651	14	20°940'	13°865'	79723	14	19°495'	17°595'
				79508	34	25°764'	5°314'	79580	14	14°517'	9°100'	79652	13	25°358'	13°355'	79724	10	20°645'	17°011'
				79509	20	1°172'	6°243'	79581	14	15°602'	9°725'	79653	13	0°984'	14°280'	79725	20	21°400'	17°232'
				79510	10	4°450'	6°314'	79582	21	19°079'	9°666'	79654	25	3°357'	14°666'	79726	15	22°518'	17°046'
				79511	19	4°636'	6°382'	79583	10	19°150'	9°371'	79655	35	5°582'	14°886'	79727	16	22°675'	17°814'
				79512	17	7°096'	6°077'	79584	12	22°015'	9°186'	79656	15	5°711'	14°073'	79728	24	22°778'	17°954'
				79513	16	7°770'	6°545'	79585	12	23°536'	9°940'	79657	20	5°795'	14°276'	79729	23	22°799'	17°855'
				79514	17	8°315'	6°424'	79586	36	23°572'	9°696'	79658	16	9°176'	14°574'	79730	16	24°200'	17°868'
				79515	16	9°747'	6°276'	79587	12	24°280'	9°874'	79659	12	11°194'	14°436'	7973			

[illegible]

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80101	42	12-189	10-267	80173	75	11-508	14-400	80245	17	12-084	17-433	80317	18	10-534	20-064	80389	14	12-288	24-904
80102	13	18-550	10-622	80174	13	11-962	14-675	80246	10	13-156	17-922	80318	10	14-469	20-016	80390	10	14-210	24-644
80103	35	18-918	10-581	80175	29	12-860	14-582	80247	34	13-516	17-062	80319	20	14-620	20-780	80391	23	21-522	24-454
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80106	40	21-792	10-932	80178	13	14-093	14-814	80250	32	14-775	17-154	80322	41	17-690	20-666	80394	14	6-549	25-239
80107	12	22-634	10-855	80179	23	14-622	14-112	80251	47	15-928	17-872	80323	16	18-328	20-082	80395	13	8-158	25-456
80108	15	24-319	10-510	80180	16	15-606	14-100	80252	23	16-212	17-697	80324	30	20-703	20-500	80396	11	8-798	25-864
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80520	15	14:140	5:768	80592	20	25:737	13:534	80664	23	22:705	21:606					80821	13	19:250	5:935
80521	14	14:816	5:691	80593	12	0:350	14:240	80665	22	2:721	22:748					80822	35	22:894	5:720
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80525	16	22:680	5:300	80597	26	9:160	14:942	80669	16	8:359	22:181					80826	25	3:542	6:375
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80541	16	19:844	7:132	80613	24	25:983	15:196	80685	23	9:834	23:152					80842	12	8:428	7:436
80542	22	20:121	7:660	80614	12	1:213	16:780	80686	36	13:966	23:436					80843	28	9:912	7:640
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80544	16	20:155	7:766	80616*	60	9:038	16:20												



80850	16	11-186	8-276	80922	11	5-050	14-532	80994	11	20-368	18-862	81066	14	13-798	23-021	81161	33	20-282	0-046
80851	23	13-470	8-912	80923	29	5-616	14-561	80995	15	22-330	18-879	81067	16	15-768	23-786	81162	13	21-588	0-457
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80871	15	12-552	10-863	80943	15	16-496	15-968	81015	10	10-372	20-550	81087	34	24-500	24-651	81182	16	25-274	2-942
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80885	28	19-220	11-626	80957	32	12-756	16-764	81029	21	24-530	20-884	81101	10	21-355	25-858	81196	17	14-109	4-116
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80896	10	5-640	12-350	80968	10	6-761	17-767	81040	18	19-810	21-895					81207	11	3-646	5-824
80897	28	9-300	12-228	80969	34	6-776	17-145	81041	19	20-350	21-154					81208	11	8-398	5-391
80898	22	10-772	12-534	80970	48	6-838	17-976	81042	42	20-695	21-351					81209	24	8-412	5-856
80899	20	13-306	12-486	80971	22	8-694	17-335	81043	29	22-632	21-202					81210	35	8-622	5-240
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80901	30	17-250	12-729	80973	21	10-469	17-416	81045	12	25-990	21-750					81212	29	11-902	5-548
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80912	11	5-158	13-787	80984	31	3-624	18-535	81056	26	19-776	22-851					81223	45	0-218	6-684
80913	14	7-230	13-070	80985	33	4-031	18-396	81057	11	20-285	22-771					81224	31	6-745	6-660
80914	15	7-584	13-416	80986	11	4-521	18-853	81058	34	21-242	22-471								

81233	27	20°08'9"	6°50'4"	81305	12	23°35'6"	13°7'7"	81377	15	11°6'55"	22°19'6"	81469	16	15°6'25"	1°0'44"	81541	19	14°21'7"	7°02'0"
81234	11	4°7'20"	7°05'6"	81306	16	23°44'1"	13°9'57"	81378	15	15°9'16"	22°9'28"	81470	66	16°0'55"	1°0'12"	81542	18	17°06'6"	7°8'22"
81235	29	6°11'1"	7°41'0"	81307	17	23°7'44"	13°0'29"	81379	21	24°3'7"	22°7'00"	81471	21	16°16'3"	1°10'8"	81543	13	20°36'5"	7°18'4"
81236	15	7°24'8"	7°18'4"	81308	64	5°7'55"	14°5'86"	81380	28	25°7'41"	22°6'18"	81472	19	17°6'72"	1°56'2"	81544	12	23°36'8"	7°36'0"
81237	14	13°8'59"	7°7'60"	81309	16	9°0'28"	14°2'28"	81381	22	3°5'83"	23°9'26"	81473	16	22°5'25"	1°7'78"	81545	14	24°1'98"	7°70'8"
81238	11	17°0'24"	7°52'2"	81310	26	9°4'20"	14°5'91"	81382	13	5°1'45"	23°3'38"	81474	17	3°28'1"	2°24'2"	81546	16	25°9'18"	7°33'3"
81239	27	18°31'8"	7°38'8"	81311	11	16°0'11"	14°7'48"	81383	28	9°41'2"	23°0'07"	81475	32	4°58'8"	2°9'19"	81547	21	0°34'1"	8°38'2"
81240	14	23°9'30"	7°99'2"	81312	31	16°5'34"	14°1'44"	81384	20	10°8'10"	23°5'25"	81476	22	4°9'22"	2°13'6"	81548	22	0°98'6"	8°76'2"
81241	10	25°6'74"	7°38'3"	81313	16	20°3'96"	14°9'48"	81385	20	11°22'7"	23°1'10"	81477	13	9°3'77"	2°00'9"	81549	15	2°08'3"	8°31'0"
81242	15	5°08'2"	8°42'4"	81314	27	23°3'33"	14°4'92"	81386	28	11°24'4"	23°9'36"	81478	13	12°38'8"	2°33'2"	81550	21	2°51'0"	8°75'8"
81243	13	5°41'8"	8°67'7"	81315	26	24°2'56"	14°9'66"	81387	20	12°21'0"	23°4'96"	81479	20	15°1'34"	2°09'4"	81551	32	5°32'0"	8°53'2"
81244	15	6°35'2"	8°33'2"	81316	15	3°42'2"	15°0'16"	81388	18	16°52'7"	23°4'00"	81480	31	18°8'06"	2°46'6"	81552	20	6°63'6"	8°73'8"
81245	31	7°55'4"	8°73'4"	81317	14	6°66'3"	15°59'0"	81389	21	18°9'40"	23°6'66"	81481	22	21°0'22"	2°22'8"	81553	29	6°76'8"	8°62'1"
81246	26	9°56'8"	8°300"	81318	44	14°6'51"	15°12'2"	81390	14	20°29'6"	23°5'84"	81482	14	25°17'0"	2°72'4"	81554	30	7°47'8"	8°67'8"
81247	22	15°8'60"	8°300"	81319	29	21°33'2"	15°6'00"	81391	16	25°13'4"	23°9'80"	81483	18	3°38'2"	3°24'8"	81555	12	9°79'3"	8°37'0"
81248	15	20°7'26"	8°22'6"	81320	10	22°8'28"	15°12'1"	81392	34	25°25'0"	23°1'23"	81484	38	3°57'4"	3°300"	81556	18	10°41'0"	8°321"
81249	28	20°8'9"	8°041"	81321	30	2°21'5"	16°6'80"	81393	14	1°53'4"	24°7'74"	81485	10	4°47'8"	3°32'2"	81557	12	12°29'4"	8°83'6"
81250	13	22°1'52"	8°842"	81322	14	3°67'8"	16°6'37"	81394	34	2°70'4"	24°0'98"	81486	12	4°85'4"	3°93'0"	81558	10	13°32'0"	8°86'2"
81251	27	22°19'0"	8°048"	81323	34	3°81'4"	16°9'00"	81395	33	2°747"	24°7'97"	81487	53	6°92'8"	3°63'0"	81559	33	17°41'2"	8°400"
81252	44	22°38'0"	8°788"	81324	15	6°63'0"	16°3'02"	81396	19	5°29'5"	24°5'93"	81488	11	7°19'1"	3°791"	81560	15	19°43'6"	8°250"
81253	27	22°83'0"	8°335"	81325	22	9°48'2"	16°28'4"	81397	20	5°97'8"	24°3'69"	81489	12	8°11'0"	3°12'5"	81561	12	21°44'6"	8°038"
81254	25	24°35'6"	8°442"	81326	32	11°78'6"	16°54'4"	81398	24	14°41'7"	24°4'50"	81490	14	9°53'4"	3°85'8"	81562	40	24°84'4"	8°464"
81255	22	0°56'4"	9°33'8"	81327	22	12°75'2"	16°35'4"	81399	28	14°96'7"	24°7'20"	81491	29	13°42'8"	3°03'4"	81563	24	25°73'0"	8°320"
81256	24	3°54'6"	9°45'9"	81328	25	13°04'5"	16°87'6"	81400	14	16°87'0"	24°6'20"	81492	36	13°51'0"	3°72'8"	81564	13	0°31'5"	9°177"
81257	17	5°07'0"	9°77'9"	81329	18	16°0'35"	16°32'0"	81401	32	18°38'4"	24°7'71"	81493	12	15°61'2"	3°72'6"	81565	21	0°50'2"	9°177"
81258	46	9°60'9"	9°290"	81330	46	22°7'06"	16°44'0"	81402	17	20°46'2"	24°0'07"	81494	25	15°72'7"	3°41'0"	81566	47	0°54'7"	9°122"
81259	17	10°61'2"	9°305"	81331	13	25°56'7"	16°47'6"	81403	39	21°77'0"	24°9'02"	81495	29	15°95'4"	3°51'2"	81567	16	0°60'2"	9°650"
81260	10	12°15'0"	9°124"	81332	18	8°82'6"	17°81'5"	81404	69	22°55'6"	24°5'79"	81496	11	16°95'6"	3°02'5"	81568	30	1°63'8"	9°714"
81261	43	12°32'2"	9°666"	81333	26	10°99'8"	17°65'2"	81405	31	1°25'4"	25°9'31"	81497	14	18°21'0"	3°17'0"	81569	20	4°59'2"	9°782"
81262	30	13°41'8"	9°477"	81334	65	12°22'6"	17°08'4"	81406	28	1°09'7"	25°54'9"	81498	32	19°45'7"	3°01'5"	81570	29	4°61'0"	9°662"
81263	44	16°07'1"	9°768"	81335	19	14°68'2"	17°78'6"	81407	13	16°12'4"	25°71'8"	81499	20	19°55'0"	3°591"	81571	14	4°662"	9°808"
81264	10	17°46'3"	9°167"	81336	32	18°87'9"	17°49'0"	81408	33	22°88'0"	25°44'0"	81500	17	23°46'0"	3°381"	81572	11	5°73'2"	9°394"
81265	16	18°12'4"	9°650"	81337	23	21°00'0"	17°12'0"					81501	42	24°85'0"	3°222"	81573	10	9°31'0"	9°701"
81266	31	18°51'6"	9°366"	81338	12	23°33'4"	17°53'6"					81502	12	1°85'6"	4°95'4"	81574	17	12°01'4"	9°547"
81267	48	21°11'0"	9°316"	81339	29	1°79'4"	18°20'9"					81503	19	2°84'0"	4°20'8"	81575	10	14°74'7"	9°879"
81268	28	22°33'8"	9°339"	81340	16	8°78'6"	18°08'6"					81504	11	3°58'4"	4°09'2"	81576	47	14°64'2"	9°698"
81269	17	22°52'6"	9°318"	81341	19	12°39'2"	18°65'6"					81505	17	11°74'3"	4°07'7"	81577	22	17°20'6"	9°607"
81270	30	23°47'4"	9°390"	81342	16	14°35'6"	18°71'8"					81506	16	12°69'3"	4°12'2"	81578	11	18°38'2"	9°056"
81271	30	1°70'6"	10°900"	81343	27	19°41'0"	18°06'0"					81507	19	16°02'0"	4°79'4"	81579	12	18°46'2"	9°742"
81272	12	2°68'4"	10°175"	81344	11	19°61'4"	18°47'0"					81508	33	17°57'8"	4°71'2"	81580	41	18°745"	9°292"
81273	16	4°06'6"	10°860"	81345	15	20°83'6"	18°98'4"					81509	25	24°04'4"	4°23'5"	81581	38	18°91'3"	9°718"
81274	11	6°54'0"	10°634"	81346	16	22°72'0"	18°100"					81510	20	0°08'4"	5°67'5"	81582	12	20°45'1"	9°830"
81275	32	15°36'9"	10°944"	81347	16	0°32'6"	19°50'0"					81511	26	1°95'7"	5°890"	81583	16	22°55'9"	9°482"
81276	17	16°41'5"	10°256"	81348	13	0°500"	19°05'4"					81512	41	2°43'8"	5°500"	81584	13	3°96'4"	10°684"
81277	19	18°72'0"	10°198"	81349	41	1°144"	19°85'2"					81513	16	2°44'5"	5°17'2"	81585	37	7°76'4"	10°550"
81278	11	25°79'0"	10°384"	81350	26	2°673"	19°91'9"					81514	15	2°700"	5°050"	81586	21	11°05'7"	10°860"
81279	17	0°090"	11°046"	81351	15	6°770"	19°962"					81515	30	3°047"	5°226"	81587	16	11°10'2"	10°890"
81280	12	4°890"	11°497"	81352	48	7°947"	19°824"					81516	18	6°870"	5°508"	81588	10	16°31'7"	10°420"
81281	19	9°774"	11°616"	81353	37	10°508"	19°946"					81517	11	9°220"	5°727"	81589	11	16°724"	10°788"
81282	16	12°680"	11°820"	81354	32	13°153"	19°874"					81518	15	10°444"	5°888"	81590	32	17°798"	10°718"
81283	24	14°01'3"	11°760"	81355	34	15°726"	19°112"					81519	25	10°672"	5°886"	81591	10	18°170"	10°240"
81284	16	19°660"	11°166"	81356	32	17°600"	19°605"					81520	25	15°844"	5°132"	81592	10	22°882"	10°468"
81285	29	25°761"	11°672"	81357	15	24°610"	19°310"					81521	20	18°134"	5°194"	81593	14	23°086"	10°218"
81286	16	0°552"	12°824"	81358	40	25°936"	19°340"					81522	14	20°652"	5°887"	81594	16	23°574"	10°800"
81287	41	4°988"	12°190"	81359	26	0°920"	20°912"					81523	13	21°613"	5°728"	81595	14	2°312"	11°908"
81288	36	6°030"	12°075"	81360	14	1°091"	20°185"					81524	23	0°144"	6°164"	81596	30	3°946"	11°976"
81289	28	7°584"	12°310"	81361	19	1°240"	20°821"					81525	12	5°375"	6°010"	81597	17	5°548"	11°838"
81290	17	8°144"	12°719"	81362	22	2°134"	20°399"					81526	21	7°110"	6°314"	81598	17	5°988"	11°466"
81291	23	8°560"	12°385"	81363	15	5°247"	20°130"					81527	21	7°314"	6°356"	81599	16	6°394"	11°237"
81292	36	9°114"	12°896"	81364	11	6°310"	20°512"					81528	10	11°806"	6°034"	81600	27	13°804"	11°224"
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81295	30	23°160"	12°715"	81367	25	0°833"	21°374"					81531	24	13°053"	6°880"	81603	18	16°216"	11°979"
81296	24	25°426"	12°940"	81368	12	1°013"	21°616"					81532	21	16°238"	6°514"	81604	23	16°714"	11°376"

				R.A. 21 <sup>h</sup> 52 <sup>m</sup>				Plate 1700; 1920 Oct. 10.			
				Provisional Constants.				A B C			
				D E F				-01750 +00915 -2335			
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81978	16	19°554	12°684	82050	34	11°826	20°566	82122	14	19°112	25°341	82194	10	14°500	6°580	82266	13	19°226	12°478
81979	20	21°396	12°972	82051	14	13°431	20°864	82123	22	23°212	25°034	82195	34	14°833	6°940	82267	15	22°414	12°809
81980	21	25°418	12°308	82052	14	14°186	20°324	82124	17	23°692	25°125	82196	23	15°357	6°156	82268	40	2°346	13°825
81981	19	25°906	12°234	82053	17	20°956	20°546	82125	24	24°126	25°014	82197	23	15°468	6°961	82269	24	13°752	13°957
81982	38	5°444	13°476	82054	20	21°934	20°798	82126	39	25°716	25°582	82198	32	18°390	6°700	82270	12	16°446	13°785
81983	19	5°645	13°039	82055	16	22°261	20°426					82199	14	20°479	6°246	82271*	74	18°874	13°415
81984	17	7°106	13°086	82056	23	24°232	20°362					82200	19	22°176	6°388	82272	19	21°573	13°527
81985	19	13°472	13°456	82057	18	24°460	20°582					82201	20	22°185	6°814	82273	26	23°314	13°956
81986	19	15°294	13°512	82058	15	2°778	21°052					82202	14	25°524	6°428	82274	20	25°290	13°730
81987	40	16°374	13°883	82059	17	5°524	21°710					82203	34	25°665	6°470	82275	13	25°569	13°400
81988	28	19°636	13°235	82060	38	6°694	21°940					82204	44	25°676	6°382	82276	26	0°680	14°466
81989	41	24°264	13°898	82061	14	7°954	21°262					82205	27	2°154	7°345	82277	30	1°072	14°328
81990	34	2°866	14°662	82062	20	10°268	21°566					82206	25	2°420	7°389	82278	20	2°244	14°235
81991	15	7°195	14°465	82063	28	11°848	21°312					82207	29	2°526	7°680	82279	13	2°774	14°115
81992	13	7°976	14°215	82064	48	12°432	21°434					82208	14	4°905	7°260	82280	27	3°354	14°708
81993	12	15°307	14°560	82065	30	13°634	21°734					82209	25	5°972	7°008	82281	13	4°262	14°940
81994	46	18°602	14°974	82066	14	14°588	21°260					82210	20	8°564	7°904	82282*	46	6°865	14°699
81995	25	22°598	14°524	82067	11	15°914	21°254					82211	33	10°386	7°360	82283	12	8°557	14°185
81996	36	22°986	14°390	82068	18	19°622	21°713					82212	14	10°534	7°845	82284	24	9°101	14°362
81997	18	24°156	14°306	82069	22	20°276	21°770					82213	37	10°840	7°190	82285	28	9°228	14°200
81998	13	24°688	14°194	82070	13	21°796	21°038					82214	31	18°020	7°372	82286	20	9°578	14°320
81999	38	25°264	14°790	82071	19	22°785	21°792					82215	44	18°578	7°474	82287	14	19°004	14°043
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82001	22	4°029	15°781	82073	20	23°636	21°076					82217	19	22°391	7°710	82289*	40	21°205	14°568
82002	15	5°976	15°056	82074	22	2°662	22°383					82218	25	25°502	7°412	82290	32	25°469	14°430
82003*	44	9°910	15°455	82075	22	4°176	22°305					82219	13	3°754	8°605	82291	33	8°601	15°845
82004	16	11°280	15°864	82076	22	8°312	22°016					82220	17	4°642	8°738	82292*	77	8°790	15°622
82005	19	11°690	15°469	82077	21	8°842	22°375					82221	13	7°085	8°808	82293	11	9°574	15°591
82006	16	12°381	15°574	82078	22	13°042	22°342					82222	11	14°828	8°813	82294	18	11°040	15°720
82007	32	15°286	15°804	82079	26	15°774	22°478					82223	12	20°627	8°400	82295	11	12°236	15°618
82008	25	19°581	15°656	82080	16	19°015	22°894					82224	18	24°214	8°581	82296	38	12°460	15°605
82009	28	1°944	16°745	82081	30	20°174	22°168					82225	20	0°734	9°945	82297	10	16°584	15°936
82010	16	2°826	16°029	82082	26	7°572	23°074					82226	14	1°796	9°528	82298	11	21°184	15°172
82011	34	4°522	16°287	82083	22	10°018	23°710					82227	20	2°022	9°498	82299	15	25°230	15°915
82012	15	7°344	16°062	82084	27	13°448	23°052					82228	12	3°990	9°298	82300	12	8°718	16°300
82013	14	10°556	16°833	82085	23	14°274	23°254					82229	13	3°755	9°049	82301	38	9°580	16°324
82014	16	15°776	16°954	82086	32	14°300	23°316					82230	15	4°878	9°801	82302	20	12°566	16°220
82015	29	15°904	16°808	82087	23	18°716	23°706					82231	13	7°602	9°985	82303	13	13°344	16°324
82016	15	17°040	16°394	82088	18	19°794	23°449					82232	17	8°550	9°048	82304	22	14°732	16°648
82017	32	19°836	16°656	82089	16	20°199	23°569					82233	12	8°898	9°096	82305	26	19°460	16°350
82018	21	20°532	16°106	82090	26	20°900	23°106					82234	12	10°374	9°735	82306	15	20°058	16°918
82019	16	23°440	16°160	82091	30	20°948	23°062					82235	21	22°179	9°552	82307	20	20°870	16°657
82020	12	0°884	17°951	82092	29	21°260	23°151					82236	27	3°920	10°002	82308	15	23°727	16°650
82021*	34	1°766	17°564	82093	12	21°726	23°692					82237	14	5°463	10°064	82309	14	8°854	17°294
82022	15	1°944	17°802	82094	13	22°002	23°400					82238	18	5°629	10°444	82310	16	12°976	17°174
82023	14	2°392	17°662	82095	15	24°526	23°154					82239	14	6°212	10°555	82311	11	14°118	17°418
82024	14	5°064	17°654	82096	11	0°243	24°127					82240	18	8°576	10°075	82312	19	16°125	17°914
82025	17	12°345	17°336	82097	22	1°294	24°534					82241	19	11°400	10°484	82313	18	16°998	17°808
82026	19	17°032	17°482	82098	32	4°254	24°535					82242	12	16°165	10°900	82314	19	19°170	17°730
82027	12	18°185	17°788	82099	32	6°158	24°216					82243	13	17°129	10°617	82315	14	20°460	17°520
82028	22	21°034	17°784	82100	31	7°617	24°606					82244	14	19°613	10°250	82316	19	20°738	17°062
82029	19	4°063	18°386	82101	18	8°916	24°286					82245	15	20°574	10°330	82317	20	21°020	17°828
82030	19	8°792	18°718	82102	19	10°596	24°006					82246	19	22°460	10°638	82318	20	21°358	17°292
82031	41	11°260	18°460	82103	24	10°789	24°522					82247	38	2°032	11°638	82319	25	22°400	17°964
82032	12	20°586	18°515	82104	22	15°321	24°272					82248	15	3°606	11°555	82320	12	24°486	17°252
82033	15	22°580	18°478	82105	37	16°800	24°647					82249	34	4°326	11°628	82321	40	25°875	17°395
82034	16	25°000	18°994	82106	14	18°327	24°346					82250	17	4°428	11°735	82322	14	0°708	18°420
82035	11	2°331	19°395	82107	42	24°360	24°512					82251	23	4°677	11°480	82323	14	3°731	18°907
82036	36	4°700	19°640	82108	30	25°250	24°709					82252	17	5°498	11°670	82324	10	17°250	18°650
82037	16	5°338	19°776	82109	21	2°234	25°435					82253	15	8°418	11°590	82325	15	19°336	18°160
82038*	48	9°740	19°528	82110	16	2°962	25°414					82254	18	10°860	11°735	82326	20	1°910	19°231
82039	38	17°665	19°608	82111	20	4°726	25°262					82255	19	20°476	11°372	82327	12	2°432	19°850
82040	20	23°778	19°300	82112	38	5°862	25°576					82256	16	21°650	11°404	82328*	45	3°465	19°427
82041*	44	25°336	19°512	82113	20	6°368	25°922					82257	24	21°956	11°685	82329	32	4°341	19°790
82042	23	1°554	20°537	82114	46	6°374	25°570					82258	19	22°508	11°024	82330	14	13°629	19°765
82043	12	2°436	20°358	82115	14	6°613	25°854					82259	20	24°801	11°224	82331	31	15°986	19°169
82044	16	2°830	20°324	82116	14	8°109	25°680					82260	26	25°092	11°400	82332*	40	17°370	19°160
82045	20	4°434	20°988	82117	35	8°174	25°812					82261	22	3°486	12°225	82333	33	24°956	19°801
82046	14	7°214	20°737	82118	34	9°084	25°732					82262	19	3°975	12°146	82334	38	25°434</	



[illegible]



82722	34	6.900	25.939	82783	14	10.136	2.538	82855	46	8.440	10.727	82927	24	9.720	17.850	82999	25	6.921	22.668
82723	31	7.785	25.516	82784	28	11.664	2.594	82856	47	12.326	10.844	82928	18	10.600	17.052	83000	26	18.430	22.052
82724	15	9.930	25.505	82785	53	18.920	2.442	82857	26	15.094	10.259	82929	27	13.680	17.868	83001	34	19.126	22.366
82725	21	10.243	25.842	82786	41	24.156	2.348	82858	14	18.320	10.388	82930	27	18.676	17.118	83002	17	19.440	22.610
82726	19	11.318	25.372	82787	13	25.415	2.889	82859	31	18.704	10.606	82931	46	19.300	17.675	83003	28	20.262	22.350
82727	29	13.837	25.829	82788	21	3.012	3.642	82860	15	19.227	10.558	82932	19	20.978	17.196	83004	27	0.836	23.734
82728	12	16.612	25.256	82789	58	4.620	3.935	82861	18	22.090	10.002	82933	24	21.108	17.375	83005	25	3.420	23.082
82729	10	16.956	25.848	82790	26	8.127	3.020	82862	20	22.900	10.788	82934	23	21.865	17.132	83006	21	5.355	23.302
82730	22	17.857	25.008	82791	29	15.045	3.890	82863	22	23.300	10.696	82935	32	24.010	17.000	83007	25	5.928	23.810
82731	12	20.568	25.790	82792	12	17.905	3.208	82864	20	23.600	10.026	82936	30	0.910	18.462	83008	26	6.600	23.591
82732	35	21.470	25.015	82793	33	22.332	3.706	82865	13	24.404	10.308	82937	18	2.182	18.513	83009	14	9.366	23.794
82733	12	21.537	25.480	82794	32	25.790	3.299	82866	40	24.682	10.080	82938	23	7.040	18.971	83010	33	10.660	23.602
82734	31	21.062	25.871	82795	14	25.940	3.639	82867	35	1.247	11.724	82939	13	7.518	18.966	83011	22	12.911	23.215
82735	18	23.330	25.220	82796	21	4.912	4.380	82868	24	1.629	11.130	82940	65	8.654	18.994	83012	14	14.796	23.088
82736	28	24.008	25.184	82797	15	5.688	4.887	82869	13	2.182	11.184	82941	31	9.494	18.250	83013	20	10.072	23.495
82737	16	25.238	25.137	82798	22	6.288	4.345	82870	22	3.535	11.674	82942	15	9.734	18.148	83014	27	20.265	23.106
				82799	42	6.944	4.613	82871	12	4.780	11.252	82943	28	19.390	18.510	83015	36	20.972	23.120
				82800	48	13.201	4.426	82872	19	18.766	11.222	82944	15	19.558	18.907	83016	25	21.884	23.218
				82801	26	13.930	4.995	82873	29	23.617	11.617	82945	26	21.085	18.614	83017	26	24.344	23.610
				82802	25	13.957	4.945	82874	39	2.963	12.778	82946	21	21.276	18.774	83018	27	1.366	24.942
				82803	17	14.736	4.660	82875	58	3.754	12.052	82947	20	22.390	18.860	83019	14	3.740	24.258
				82804	22	17.124	4.316	82876	29	6.650	12.565	82948	28	24.066	18.610	83020	17	4.530	24.400
				82805	21	19.225	4.392	82877	16	7.545	12.800	82949	25	25.883	18.418	83021	22	5.086	24.683
				82806	29	19.374	4.303	82878	30	9.526	12.894	82950	15	0.056	19.150	83022	36	6.930	24.490
				82807	28	20.937	4.282	82879	12	10.220	12.061	82951	17	4.028	19.496	83023	35	10.748	24.818
				82808	16	25.266	4.970	82880	21	10.520	12.430	82952	15	4.114	19.333	83024	34	11.149	24.860
				82809	34	3.912	5.972	82881	22	12.245	12.228	82953	18	5.306	19.646	83025	46	11.701	24.434
				82810	21	6.986	5.074	82882	17	16.144	12.794	82954	20	6.350	19.110	83026	12	11.785	24.854
				82811	31	8.050	5.255	82883	13	16.630	12.548	82955	39	7.976	19.941	83027	25	13.218	24.150
				82812	25	8.615	5.342	82884	22	16.647	12.217	82956	14	8.576	19.016	83028	15	13.389	24.198
				82813	23	11.926	5.507	82885	20	17.513	12.556	82957	13	9.742	19.834	83029	26	13.578	24.887
				82814	28	12.374	5.026	82886	16	18.300	12.094	82958	18	10.356	19.135	83030	24	14.770	24.440
				82815	17	12.503	5.973	82887	35	24.809	12.912	82959	21	11.535	19.090	83031	27	15.214	24.946
				82816	20	16.420	5.081	82888	34	0.875	13.890	82960	24	15.920	19.957	83032	15	17.500	24.905
				82817	28	18.558	5.446	82889	36	4.180	13.814	82961	28	17.402	19.430	83033	19	18.326	24.977
				82818	29	19.605	5.324	82890	13	8.226	13.372	82962	16	18.390	19.744	83034	35	20.049	24.934
				82819	16	18.710	6.384	82891	17	9.212	13.578	82963	13	21.924	19.459	83035	39	21.010	24.740
				82820	28	22.294	6.901	82892	28	16.500	13.100	82964	17	21.940	19.740	83036	25	22.311	24.790
				82821	16	22.666	6.996	82893	30	3.650	14.314	82965	43	23.498	19.082	83037	34	0.205	25.358
				82822	32	2.645	7.480	82894	29	5.696	14.208	82966	16	24.520	19.316	83038	23	1.527	25.668
				82823	18	3.614	7.908	82895	31	10.628	14.670	82967	31	4.320	20.478	83039	40	2.201	25.627
				82824	55	4.202	7.038	82896	16	10.880	14.801	82968	17	7.284	20.450	83040	26	3.436	25.566
				82825	12	8.141	7.570	82897	46	11.420	14.600	82969	35	7.844	20.092	83041	10	5.238	25.836
				82826	25	9.890	7.290	82898	54	11.768	14.443	82970	27	8.237	20.660	83042	35	5.255	25.817
				82827	17	13.390	7.594	82899	127	12.974	14.006	82971	27	9.424	20.730	83043	10	6.214	25.470
				82828	41	15.738	7.784	82900	21	13.152	14.586	82972	32	11.557	20.815	83044	24	12.361	25.222
				82829	27	16.393	7.796	82901	62	20.310	14.020	82973	16	15.182	20.070	83045	26	12.628	25.886
				82830	17	17.816	7.296	82902	29	21.415	14.628	82974	41	16.066	20.800	83046	18	13.070	25.838
				82831	18	17.906	7.150	82903	51	24.030	14.049	82975	26	18.742	20.080	83047	35	16.722	25.794
				82832	11	19.830	7.978	82904	27	1.366	15.437	82976	18	19.094	20.485	83048	28	18.310	25.438
				82833	24	20.186	7.958	82905	22	1.727	15.746	82977	24	19.502	20.270	83049	40	18.398	25.250
				82834	28	0.432	8.828	82906	44	8.350	15.410	82978	27	1.018	21.971				
				82835	16	1.426	8.635	82907	16	9.560	15.392	82979	21	2.680	21.340				
				82836	28	3.211	8.516	82908	21	14.151	15.113	82980	27	4.283	21.214				
				82837	33	4.562	8.954	82909	23	16.580	15.010	82981	47	5.766	21.084				
				82838	12	6.971	8.314	82910	15	18.738	15.359	82982	21	6.310	21.740				
				82839	31	7.141	8.362	82911	26	23.990	15.914	82983	13	7.220	21.820				
				82840	18	8.066	8.031	82912	11	0.092	16.256	82984	12	9.922	21.914				
				82841	29	8.172	8.128	82913	14	7.084	16.752	82985	13	10.597	21.024				
				82842	38	11.522	8.360	82914	12	7.642	16.722	82986	27	19.190	21.800				
				82843	27	11.600	8.214	82915	33	9.988	16.523	82987	28	20.197	21.612				
				82844	37	15.028	8.140	82916	27	10.271	16.594	82988	18	20.468	21.500				
				82845	19	15.324	8.290	82917	40	10.300	16.299	82989	58	20.540	21.808				
				82846	16	19.679	8.716	82918	19	10.312	16.290	82990	15	21.456	21.050				
				82847	26	20.690	8.345	82919	15	10.909	16.480	82991	35	21.927	21.070				
				82848	26	24.518	8.376	82920	26	17.106	16.022	82992	35	0.066	22.360				
				82849	19	0.390	9.720	82921	27	19.694	16.355	82993	14	14.555	22.152				
				82850	27	9.826	9.416	82922	30	24.288	16.352	82994	28	3.246	22.734				
				82851	28	15.150	9.635	82923	38	24.556	16.400	82995	12	3.627	22.922				
				82852	20	19.285	9.500	82924	18	25.554	16.397	82996	80	3.691	22.332				

R.A. 22 <sup>h</sup> 24 <sup>m</sup>				R.A. 22 <sup>h</sup> 32 <sup>m</sup>			
Plate 1729; 1920 Nov. 2.				Plate 1738; 1920 Nov. 14.			
Provisional Constants.				Provisional Constants.			
A	B	C		A	B	C	
-01745	+00919	-3779		-01746	+01593	-5308	
D	E	F		D	E	F	
-00939	-01750	-2028		-01572	-01714	-0198	
Mag.=16.4-0.94√d				Mag.=16.3-0.94√d			
No.	d	x	y	No.	d	x	y
83051	40	1.010	0.431	83401	12	2.667	0.560
83052	20	1.680	0.352	83402	14	6.815	0.538
83053	12	3.487	0.412	83403	28	10.538	0.884
83054	35	10.606	0.452	83404	24	13.676	0.411
83055	17	16.457	0.972	83405	13	17.888	0.460
83056	16	17.057	0.131	83406	44	18.684	0.814
83057	12	21.452	0.101	83407	38	19.640	0.404
83058	13	23.480	0.970	83408	14	1.324	1.354
83059	13	24.838	0.212	83409	12	6.304	1.725
83060	15	2.075	1.130				
83061	13	4.056	1.680				
83062	31	10.106	1.252				
83063	19	11.600	1.715				
83064	22	12.626	1.180				
83065	15	13.306	1.157				
83066	41	14.647	1.400				
83067	22	17.384	1.284				
83068	27	23.315	1.859				
83069	42	1.917	2.110				
83070	13	3.188	2.058				
83071	11	3.924	2.758				
83072	14	6.331	2.736				
83073	11	7.806	2.559				
83074	20	9.130	2.606				
83075	37	11.070	2.760				
83076	30	14.881	2.224				
83077	19	19.091	2.409				
83078	12	22.881	2.314				
83079	33	0.118	3.526				
83080	30	3.569	3.065				
83081	13	3.727	3.400				
83082	37	8.437	3.125				
83083	14	8.647	3.060				
83084	41	8.690	3.520				
83085	11	9.937	3.612				
83086	18	11.217	3.538				
83087	41	11.601	3.974				
83088	35	18.802	3.608				
83089	21	19.120	3.930				
83090	45	19.882	3.986				
83091	46	20.558	3.256				
83092	26	25.431	3.309				
83093	15	3.072	4.742				
83094	22	3.860	4.030				
83095	18	4.305	4.755				
83096	19	8.386	4.144				
83097	13	9.164	4.371				
83098	10	10.539	4.718				
83099	31	11.150	4.538				
83100	21	12.712	4.004				
83101	14	12.933	4.770				
83102	12	13.343	4.830				
83103	11	14.642	4.927				
83104	38	14.982	4.758				
83105	20	15.200	4.431				
83106	28	19.017	4.120	83178	30	20.774	10.680
83107	13	24.700	4.054	83179	18	21.236	10.608
83108	37	5.080	5.086	83180	16	0.459	11.934
83109	14	12.160	5.002	83181	11	0.790	11.722
83110	22	12.448	5.050	83182	29	1.526	11.416
83111	15	14.006	5.880	83183	10	2.390	11.882
83112	17	18.121	5.372	83184	23	7.820	11.362
83113	18	18.777	5.479	83185	36	12.883	11.624
83114	13	20.110	5.601	83186	13	16.644	11.408
83115	15	21.568	5.559	83187	11	18.604	11.254
83116	11	23.648	5.532	83188	12	0.722	12.690
83117	27	0.130	6.725	83189	10	1.753	12.108
83118	12	0.506	6.808	83190	37	2.736	12.692
83119	12	2.098	6.368	83191	12	10.352	12.188
83120	16	4.162	6.756	83192	16	14.076	12.130
83121	17	9.092	6.860	83193	15	17.284	12.950
83122	14	9.120	6.600	83194	17	18.480	12.199
83123	38	11.792	6.246	83195	20	18.490	12.186
83124	31	12.364	6.082	83196	13	24.946	12.190
83125	25	12.108	6.135	83197	15	25.178	12.054
83126	17	12.537	6.466	83198	53	1.078	13.842
83127	11	13.310	6.016	83199	13	3.695	13.864
83128	15	16.390	6.072	83200	43	5.352	13.732
83129	14	19.248	6.040	83201	11	6.334	13.942
83130	28	21.270	6.536	83202	18	8.535	13.212
83131	28	23.050	6.450	83203	38	11.018	13.842
83132	14	25.510	6.168	83204	16	12.286	13.953
83133	33	4.749	7.710	83205	12	14.548	13.210
83134	25	4.926	7.120	83206	12	15.386	13.902
83135	19	7.492	7.432	83207	19	16.609	13.024
83136	22	8.548	7.937	83208	10	18.808	13.279
83137	13	13.051	7.828	83209	42	19.598	13.742
83138	11	13.390	7.732	83210	16	20.784	13.022
83139	21	16.531	7.189	83211	21	23.898	13.390
83140	22	17.862	7.492	83212	11	24.174	13.510
83141	10	18.310	7.582	83213	10	25.371	13.040
83142	22	20.076	7.732	83214	11	2.320	14.259
83143	11	20.672	7.162	83215	17	4.208	14.660
83144	45	23.744	7.664	83216	21	4.540	14.807
83145	23	23.788	8.162	83217	14	5.218	14.580
83146	24	4.070	8.520	83218	16	7.262	14.168
83147	13	5.060	8.567	83219	21	7.330	14.162
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83149	11	11.511	8.374	83221	17	8.730	14.421
83150	16	13.446	8.896	83222	38	9.818	14.128
83151	19	17.266	8.662	83223	11	12.026	14.949
83152	26	1.184	9.826	83224	35	13.063	14.504
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83155	24	5.422	9.176	83227	10	0.175	15.804
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83158	41	9.842	9.043	83230	13	7.566	15.181
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83834	32	22-015	8-916	83906	31	20-691	15-088	83978	13	18-762	23-053	84106	20	14-883	9-650
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83836	17	25-608	8-480	83908	21	23-688	15-804	83980	41	23-762	23-091	84108	40	18-040	9-182
83837	16	2-248	9-888	83909	12	2-154	16-736	83981	30	0-348	24-241	84109	11	18-946	9-318
83838	10	6-735	9-426	83910	33	8-824	16-070	83982	52	1-592	24-104	84110	10	19-733	9-490
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83840	10	10-396	9-255	83912	11	6-900	16-798	83984	26	10-370	24-784	84112	19	24-688	9-710
83841	30	16-244	9-775	83913	15	9-618	16-478	83985	45	12-575	24-850	84113	12	0-102	10-015
83842	33	24-194	9-690	83914	42	11-446	16-380	83986	34	16-223	24-990	84114	31	2-375	10-066
83843	30	0-426	10-736	83915	17	17-415	16-433	83987	32	16-474	34-703	84115	17	3-766	10-800
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83846	33	5-023	10-579	83918	13	3-876	17-294					84118	13	12-670	10-941
83847	10	8-040	10-454	83919	10	4-090	17-944					84119	40	14-584	10-893
83848	25	8-115	10-060	83920	16	7-169	17-640					84120	13	17-067	10-922
83849	30	14-641	10-160	83921	11	10-916	17-249					84121	32	20-922	10-116
83850	28	17-111	10-112	83922	13	18-779	17-328					84122	12	1-078	11-444
83851	29	19-160	10-108	83923	24	19-915	17-777					84123	11	1-149	11-902
83852	26	19-678	10-724	83924	16	24-950	17-300					84124	21	1-250	11-850
83853	12	20-819	10-438	83925	22	24-984	17-313					84125	13	1-600	11-982
83854	21	1-936	11-774	83926	17	7-665	18-206					84126	20	5-206	11-490
83855	20	2-134	11-551	83927	35	8-649	18-885					84127	19	9-058	11-816

R.A. 22<sup>h</sup> 48<sup>m</sup>

Plate 1739; 1920 Nov. 14.

Provisional Constants.

A B C  
 -0.1751 -0.0090 -1.923  
 D E F  
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Mag. = 17.0 - 0.94√d

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84004	12	6-497	0-826
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84006	11	15-640	0-200
84007	27	23-305	0-130
84008	40	0-174	0-049
84009	26	3-371	1-956
84010	10	3-386	1-823
84011	27	3-957	1-560
84012	30	8-428	1-555
84013	60	10-610	1-443
84014	20	21-898	1-665
84015	17	21-078	1-296
84016	36	24-487	1-371
84017	20	1-400	2-



84128	32	11-204	11-167	84200	10	21-201	18-726	84272	46	15-045	24-198	84332	18	10-740	4-981	84404	12	20-716	13-080
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84130	13	13-070	11-041	84202	11	22-040	18-300	84274	12	4-590	25-452	84334	12	12-004	4-440	84406	18	21-771	13-754
84131	24	14-668	11-900	84203	34	24-725	18-510	84275	36	8-850	25-535	84335	13	10-234	4-808	84407	37	23-794	13-044
84132	42	15-772	11-490	84204	38	25-818	18-255	84276	20	10-124	25-084	84336	14	17-352	4-076	84408	31	24-187	13-061
84133	42	15-990	11-080	84205	16	1-853	19-286	84277	40	10-430	25-403	84337	10	18-785	4-048	84409	16	24-868	13-855
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84138	10	14-736	12-141	84210	20	9-140	19-904	84282	14	17-004	25-235	84342	30	5-330	5-478	84414	10	20-901	14-955
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84144	19	5-756	13-660	84216	35	22-814	19-456	84288	24	24-836	25-604	84348	16	14-722	5-416	84420	40	18-850	15-475
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84160	15	23-000	11-668	84232	12	17-524	20-186					84364	24	2-514	8-070	84436	22	14-676	17-340
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84164	68	9-996	15-365	84236	10	24-917	20-986					84368	20	0-222	9-618	84440	38	4-128	18-847
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84193	10	13-318	18-514	84265	83	16-919	23-972					84397	33	23-213	12-958	84469	34	7-738	21-056
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84195	42	14-336	18-088	84267	20	19-5													



84476	13	3°43'	22°49'	84573	28	4°45'	3°75'	84645	19	10°94'	10°31'	84717	19	12°58'	17°44'	84789	17	4°94'	24°25'
84477	26	4°02'	22°32'	84574	21	5°13'	3°74'	84646	33	11°306	10°906	84718	23	13°873	17°273	84790	24	4°974	24°254
84478	30	7°42'	22°932	84575	17	6°954	3°624	84647	39	11°338	10°906	84719	24	16°616	17°452	84791	32	6°144	24°776
84479	46	11°593	22°331	84576	18	6°976	3°596	84648	20	20°286	10°706	84720	16	17°426	17°636	84792	24	11°416	24°903
84480	42	11°632	22°350	84577	39	8°036	3°718	84649	25	21°797	10°166	84721	14	19°404	17°504	84793	25	12°168	24°352
84481	39	18°295	22°740	84578	18	12°532	3°459	84650	13	2°344	11°369	84722	37	21°150	17°933	84794	12	13°993	24°168
84482	26	19°528	22°790	84579	15	13°960	3°084	84651	39	6°538	11°686	84723	19	22°352	17°096	84795	140	14°410	24°406
84483	41	8°32	23°928	84580	13	15°076	3°154	84652	21	7°284	11°576	84724	17	22°904	17°730	84796	16	16°992	24°682
84484	32	12°893	23°378	84581	13	15°404	3°784	84653	12	8°056	11°532	84725	22	23°526	17°604	84797	22	17°927	24°744
84485	11	13°516	23°096	84582	16	16°637	3°810	84654	18	8°589	11°845	84726	15	1°526	18°922	84798	22	17°935	24°434
84486	39	13°772	23°405	84583	24	5°734	4°356	84655	24	11°196	11°620	84727	15	2°276	18°036	84799	32	17°995	24°076
84487	17	15°453	23°171	84584	18	7°974	4°012	84656	40	13°684	11°437	84728	54	4°374	18°316	84800	37	19°856	24°445
84488	14	17°784	23°948	84585	26	8°002	4°951	84657	42	17°877	11°398	84729	13	5°646	18°236	84801	39	24°576	24°502
84489	16	18°736	23°742	84586	28	10°574	4°516	84658	36	18°209	11°202	84730	38	9°254	18°496	84802	21	0°884	25°485
84490	12	19°150	23°150	84587	30	12°582	4°966	84659	15	18°254	11°202	84731	20	9°790	18°115	84803	38	3°626	25°490
84491	40	4°152	24°120	84588	31	14°738	4°948	84660	19	21°036	11°556	84732	11	10°416	18°884	84804	39	5°164	25°796
84492	43	11°950	24°008	84589	13	19°538	4°166	84661	46	23°603	11°874	84733	15	10°872	18°644	84805	32	6°204	25°924
84493	80	13°464	24°166	84590	16	25°758	4°134	84662	16	0°538	12°093	84734	13	11°014	18°576	84806	15	8°393	25°835
84494	21	13°652	24°162	84591	17	4°472	5°248	84663	28	1°112	12°104	84735	38	11°736	18°694	84807	19	10°287	25°768
84495	60	23°990	24°162	84592	37	7°229	5°684	84664	33	1°316	12°886	84736	16	17°204	18°124	84808	11	14°354	25°290
84496	31	9°884	25°060	84593	46	11°682	5°586	84665	19	1°719	12°403	84737	19	17°240	18°518	84809	11	19°156	25°088
84497	51	10°186	25°468	84594	17	13°342	5°276	84666	21	3°310	12°830	84738	32	22°015	18°564	84810	17	19°556	25°155
84498	30	17°609	25°137	84595	42	17°244	5°166	84667	27	5°066	12°350	84739	24	22°015	18°564	84811	39	19°722	25°736
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84501	36	25°434	25°568	84598	14	5°664	6°505	84670	32	10°418	12°244	84742	38	2°514	19°165				
				84599	11	9°934	6°844	84671	38	17°186	12°996	84743	22	0°879	19°734				
				84600	21	12°900	6°974	84672	14	18°940	12°562	84744	40	2°432	19°546				
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				84602	26	14°492	6°666	84674	19	21°724	12°440	84746	18	3°210	19°156				
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				84604	21	18°128	6°506	84676	28	3°425	13°792	84748	32	11°556	19°686				
				84605	16	25°717	6°442	84677	14	5°900	13°976	84749	37	12°334	19°124				
				84606	22	2°321	7°656	84678	12	7°966	13°268	84750	30	15°251	19°340				
				84607	15	10°054	7°714	84679	36	6°000	13°305	84751	17	17°532	19°694				
				84608	13	12°642	7°835	84680	13	15°642	13°624	84752	38	18°908	19°046				
				84609	17	14°158	7°818	84681	24	24°624	13°254	84753	26	1°646	20°192				
				84610	23	14°569	7°100	84682	40	25°388	13°254	84754	34	1°918	20°044				
				84611	17	15°606	7°366	84683	37	2°090	14°775	84755	13	5°464	20°716				
				84612	22	16°274	7°626	84684	18	3°444	14°944	84756	16	8°544	20°366				
				84613	61	16°976	7°416	84685	10	6°927	14°958	84757	29	8°866	20°686				
				84614	46	19°020	7°245	84686	39	8°060	14°198	84758	12	16°304	20°376				
				84615	18	19°024	7°056	84687	13	9°934	14°366	84759	25	17°371	20°744				
				84616	24	19°356	7°244	84688	58	12°476	14°624	84760	16	21°645	20°654				
				84617	16	19°656	7°186	84689	32	15°721	14°634	84761	13	25°594	20°095				
				84618	23	19°838	7°836	84690	18	17°216	14°314	84762	29	5°788	21°575				
				84619	36	21°296	7°516	84691	50	18°158	14°944	84763	16	6°538	21°626				
				84620	35	21°800	7°626	84692	14	20°926	14°685	84764	57	7°607	21°767				
				84621	14	4°268	8°334	84693	26	18°214	14°766	84765	44	7°618	21°038				
				84622	17	4°534	8°855	84694	13	2°864	15°384	84766	39	19°586	21°576				
				84623	12	6°256	8°622	84695	35	3°161	15°175	84767	26	18°572	21°965				
				84624	10	13°250	8°708	84696	12	9°762	15°456	84768	39	25°864	21°975				
				84625	13	13°391	8°655	84697	40	20°495	15°132	84769	42	5°044	22°386				
				84626	28	13°614	8°026	84698	56	21°225	15°045	84770	19	8°745	22°356				
				84627	13	18°096	8°855	84699	22	21°572	15°340	84771	11	11°553	22°835				
				84628	64	21°516	8°544	84700	22	21°572	15°163	84772	28	12°416	22°419				
				84629	39	2°688	9°274	84701	14	1°284	16°716	84773	20	23°769	22°571				
				84630	11	4°504	9°210	84702	37	1°094	16°016	84774	26	23°788	22°288				
				84631	18	4°856	9°382	84703	48	7°412	16°398	84775	15	24°366	22°625				
				84632	13	9°056	9°065	84704	19	8°258	16°852	84776	14	25°638	22°628				
				84633	166	13°084	9°254	84705	21	8°886	16°898	84777	15	6°806	23°810				
				84634	20	14°076	9°950	84706	13	9°706	16°234	84778	26	13°166	23°460				
				84635	19	17°045	9°674	84707	30	10°944	16°513	84779	20	13°842	23°372				
				84636	21	17°390	9°295	84708	36	11°156	16°852	84780	25	16°629	23°044				
				84637	16	21°816	9°860	84709	36	13°822	16°394	84781	22	16°556	23°892				
				84638	21	23°826	9°050	84710	16	20°586	16°954	84782	24	16°818	23°076				
				84639	16	24°396	9°760	84711	22	23°524	16°474	84783	17	17°074	23°066				
				84640	38	25°549	9°260	84712	11	4°984	17°336	84784	14	17°524	23°967				
				84641	8	0°956	10°817	84713	15	7°768	17°892	84785	23	19°776	23°284				
				84642	34	5°126	10°634	84714	11	12°316	17°076	84786	60	2°174	24°822				
				84643	16	7°944	10°455	84715				84787							
				84644				84716				84788							

R.A. 23<sup>h</sup> 12<sup>m</sup>

Plate 1740; 1920 Dec. 3.

## Provisional Constants.

A B C  
 -01745 +005

R.A. 23<sup>h</sup> 20<sup>m</sup>

Plate 1725; 1920 Nov. 2.

Provisional Constants.

A	B	C
-0.0175	+0.0092	-2847

D	E	F
-0.0103	-0.01758	+0.0946

Mag. = 16.2 - 0.94√d

No.	d	x	y
84874	12	8.586	0.560
84875	12	8.586	0.560
84876	12	8.586	0.560
84877	12	8.586	0.560
84878	12	8.586	0.560
84879	12	8.586	0.560
84880	12	8.586	0.560
84881	12	8.586	0.560
84882	12	8.586	0.560
84883	12	8.586	0.560
84884	12	8.586	0.560
84885	12	8.586	0.560
84886	12	8.586	0.560
84887	12	8.586	0.560
84888	12	8.586	0.560
84889	12	8.586	0.560
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84902	12	8.586	0.560
84903	12	8.586	0.560
84904	12	8.586	0.560
84905	12	8.586	0.560
84906	12	8.586	0.560
84907	12	8.586	0.560
84908	12	8.586	0.560
84909	12	8.586	0.560
84910	12	8.586	0.560
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84940	12	8.586	0.560
84941	12	8.586	0.560
84942	12	8.586	0.560
84943	12	8.586	0.560
84944	12	8.586	0.560
84945	12	8.586	0.560

85256	11	25°39'6"	5°28'4"	85328*	44	21°08'0"	12°00'0"	85400	67	23°47'8"	20°00'0"	85457	30	11°24'4"	0°05'6"	85529	12	19°16'2"	7°33'0"
85257	12	0°57'0"	6°44'4"	85329*	47	6°31'0"	13°78'0"	85401	10	3°16'	21°28'2"	85458	14	13°8'0"	0°86'1"	85530	12	19°05'0"	7°52'0"
85258	32	2°05'6"	6°71'6"	85330	10	6°34'0"	13°59'0"	85402	12	7°15'9"	21°08'2"	85459	10	16°8'30"	0°80'0"	85531	13	21°69'6"	7°54'5"
85259	27	3°42'4"	6°06'2"	85331	31	7°18'8"	13°37'1"	85403	21	12°12'4"	21°05'5"	85460	17	17°40'4"	0°20'2"	85532	16	22°56'2"	7°61'4"
85260	10	7°05'9"	6°16'6"	85332	35	7°41'6"	13°16'6"	85404	17	13°04'1"	21°36'0"	85461	19	17°41'0"	0°36'8"	85533	10	0°79'8"	8°87'8"
85261	21	13°03'4"	6°66'2"	85333	12	15°09'5"	13°75'2"	85405	20	19°43'6"	21°83'4"	85462	23	18°75'2"	0°25'5"	85534	32	4°36'4"	8°54'3"
85262	12	13°40'7"	6°08'8"	85334	23	15°70'9"	13°78'2"	85406	44	24°35'6"	21°24'8"	85463	20	24°68'0"	0°41'0"	85535	15	5°15'5"	8°88'3"
85263	11	13°06'6"	6°09'0"	85335	10	17°97'1"	13°83'3"	85407	11	25°11'0"	21°03'9"	85464	14	3°88'4"	1°05'4"	85536	27	11°67'6"	8°20'2"
85264	12	18°16'2"	6°06'5"	85336	34	23°17'0"	13°88'6"	85408	10	25°87'1"	21°86'4"	85465	15	6°86'0"	1°23'0"	85537*	41	16°52'0"	8°58'0"
85265	18	19°13'0"	6°79'6"	85337	10	0°28'0"	14°78'2"	85409	44	0°37'1"	22°08'0"	85466	14	9°49'4"	1°42'0"	85538*	38	17°35'1"	8°02'4"
85266	32	23°68'6"	6°10'2"	85338	27	6°30'4"	14°38'4"	85410	40	6°08'2"	22°36'2"	85467	15	12°44'9"	1°08'4"	85539	28	17°48'2"	8°75'0"
85267	10	1°08'5"	7°74'0"	85339	17	6°56'8"	14°28'5"	85411	10	10°86'2"	22°51'0"	85468	18	16°36'2"	1°48'5"	85540	11	17°85'0"	8°77'8"
85268	31	2°7'0"	7°32'8"	85340	10	14°15'7"	14°56'8"	85412	30	12°22'6"	22°17'6"	85469	12	20°11'8"	1°44'5"	85541	28	20°14'8"	8°61'4"
85269	35	3°39'0"	7°47'0"	85341	12	14°71'2"	14°25'2"	85413	19	13°08'2"	22°47'4"	85470	20	20°40'8"	1°37'2"	85542	16	2°04'0"	9°30'0"
85270	31	9°22'9"	7°06'4"	85342	11	21°58'8"	14°35'0"	85414	14	14°06'4"	22°15'7"	85471	40	23°84'6"	1°28'4"	85543	26	3°54'4"	9°86'0"
85271*	45	10°37'4"	7°87'2"	85343	19	0°11'0"	15°75'2"	85415	13	15°67'6"	22°36'7"	85472*	50	24°88'5"	1°44'6"	85544	42	4°52'5"	9°48'4"
85272	22	11°40'6"	7°25'0"	85344	24	2°52'3"	15°07'0"	85416	12	20°70'2"	22°20'4"	85473*	62	3°56'0"	2°05'4"	85545	16	7°20'0"	9°91'5"
85273	15	14°38'3"	7°02'0"	85345	30	4°01'9"	15°14'6"	85417	16	23°02'6"	22°15'9"	85474	30	3°52'0"	2°59'3"	85546	30	7°65'0"	9°23'2"
85274	25	18°58'5"	7°04'8"	85346	13	6°38'5"	15°00'4"	85418	27	23°37'5"	22°80'3"	85475	11	3°00'0"	2°75'8"	85547	27	8°84'0"	9°88'0"
85275	23	19°37'5"	7°76'6"	85347	13	7°44'6"	15°21'6"	85419	29	23°69'0"	22°10'8"	85476	25	5°08'7"	2°21'4"	85548	17	11°39'3"	9°59'2"
85276	30	20°08'5"	7°44'3"	85348	13	12°12'8"	15°08'2"	85420	26	0°14'0"	23°09'4"	85477	15	6°00'4"	2°08'0"	85549	46	11°95'0"	9°57'0"
85277	31	22°50'4"	7°30'6"	85349	13	13°34'0"	15°56'7"	85421	25	3°14'6"	23°25'3"	85478	16	9°47'2"	2°71'8"	85550	10	18°33'2"	9°29'0"
85278	30	8°36'8"	8°12'4"	85350*	50	13°41'2"	15°17'1"	85422	44	9°15'0"	23°12'0"	85479	10	11°73'8"	2°42'2"	85551	30	20°39'6"	9°42'1"
85279	19	8°03'5"	8°49'0"	85351	35	14°46'8"	15°04'4"	85423	31	9°24'6"	23°40'5"	85480	13	15°08'0"	2°83'7"	85552	11	0°83'2"	10°64'0"
85280	12	11°20'7"	8°09'1"	85352	10	15°19'3"	15°73'4"	85424	24	9°65'5"	23°7'20"	85481	37	16°07'3"	2°55'0"	85553	26	2°31'0"	10°53'0"
85281	28	11°74'0"	8°07'4"	85353	11	16°03'9"	15°24'0"	85425	20	12°21'6"	23°53'0"	85482	12	18°67'2"	2°03'2"	85554	22	4°29'6"	10°15'5"
85282	27	19°13'0"	8°06'0"	85354	12	19°05'5"	15°31'1"	85426	33	13°00'8"	23°75'7"	85483	10	19°7'24"	2°42'0"	85555	23	5°82'0"	10°20'0"
85283	32	21°65'0"	8°15'0"	85355	32	22°81'4"	15°18'5"	85427	18	23°73'6"	23°14'2"	85484	18	21°01'0"	2°08'4"	85556	17	6°76'8"	10°12'5"
85284	16	22°40'4"	8°27'7"	85356	17	22°82'4"	15°83'0"	85428	14	3°40'4"	24°34'0"	85485	13	23°87'0"	2°14'2"	85557*	95	8°02'8"	10°48'1"
85285	12	23°72'8"	8°07'6"	85357	11	25°08'8"	15°07'5"	85429	20	8°80'0"	24°25'0"	85486	21	3°77'0"	3°05'6"	85558	15	9°04'6"	10°38'3"
85286	33	1°32'6"	9°25'0"	85358	22	2°30'0"	16°57'5"	85430	28	9°78'4"	24°38'6"	85487	38	10°09'8"	3°00'3"	85559	16	13°10'0"	10°08'0"
85287	14	4°23'6"	9°67'2"	85359	10	3°33'5"	16°00'8"	85431	10	12°09'6"	24°81'2"	85488	27	15°36'5"	3°75'2"	85560	16	14°65'0"	10°28'8"
85288	32	8°76'6"	9°87'3"	85360	18	6°53'0"	16°06'6"	85432	26	16°09'0"	24°67'6"	85489	23	15°60'0"	3°04'1"	85561	14	14°66'0"	10°03'2"
85289	13	9°28'4"	9°12'2"	85361	12	7°28'2"	16°08'2"	85433	12	18°33'6"	24°36'0"	85490	25	17°38'7"	3°16'6"	85562	13	14°71'2"	10°43'8"
85290	10	12°43'0"	9°45'0"	85362	37	8°13'2"	16°22'6"	85434	13	22°89'2"	24°39'1"	85491	38	19°07'6"	3°71'2"	85563	24	15°19'5"	10°61'4"
85291	27	12°88'0"	9°37'5"	85363*	107	9°38'0"	16°57'0"	85435	31	2°05'0"	25°79'6"	85492	31	21°21'2"	3°38'0"	85564	17	15°71'3"	10°51'7"
85292*	49	16°03'8"	9°46'6"	85364	21	12°58'2"	16°66'6"	85436	37	9°58'0"	25°79'0"	85493	10	21°41'3"	3°38'0"	85565	18	17°62'6"	10°76'0"
85293	40	17°50'0"	9°89'0"	85365	10	13°54'8"	16°46'2"	85437	62	11°09'6"	25°14'8"	85494	16	24°67'9"	3°17'1"	85566	35	20°34'8"	10°65'0"
85294	20	20°22'2"	9°38'8"	85366*	85	16°26'4"	16°13'7"	85438	50	14°72'5"	25°32'6"	85495	28	2°72'3"	4°82'2"	85567	20	16°42'7"	10°17'6"
85295	16	24°06'4"	9°86'0"	85367	11	20°20'1"	16°63'0"	85439	18	17°38'4"	25°09'5"	85496	29	3°19'8"	4°13'0"	85568	38	20°70'6"	10°25'3"
85296	21	25°21'9"	9°57'1"	85368	18	22°15'3"	16°34'9"	85440	39	21°10'8"	25°14'0"	85497	16	7°12'4"	4°43'6"	85569	38	21°54'2"	10°97'1"
85297	21	0°10'0"	10°42'8"	85369	22	3°20'4"	17°50'3"	85441	10	22°79'6"	25°35'8"	85498	33	13°80'0"	4°87'6"	85570	30	22°50'0"	10°06'7"
85298	38	6°46'2"	10°01'5"	85370	11	5°26'8"	17°41'8"	85442	28	22°02'6"	25°39'0"	85499	11	15°85'8"	4°56'3"	85571	34	23°93'4"	10°70'0"
85299	19	10°25'2"	10°23'6"	85371	17	6°50'4"	17°77'4"	85443	28	23°62'2"	25°59'0"	85500	17	17°99'7"	4°01'8"	85572	19	6°61'8"	11°59'0"
85300	14	10°34'6"	10°86'0"	85372	23	8°33'8"	17°31'4"					85501	20	23°32'0"	4°38'2"	85573*	124	8°65'2"	11°09'2"
85301	22	20°71'4"	10°02'2"	85373	25	9°51'6"	17°33'6"					85502	11	24°73'4"	4°48'5"	85574	16	10°08'0"	11°95'4"
85302	10	22°49'0"	10°28'6"	85374	30	9°83'2"	17°04'9"					85503	19	3°62'4"	5°57'0"	85575	12	12°31'8"	11°31'0"
85303	29	23°97'2"	10°21'7"	85375	23	19°82'6"	17°09'9"					85504	27	6°18'4"	5°38'0"	85576	20	18°05'2"	11°97'8"
85304	31	2°30'0"	11°44'4"	85376	18	7°18'8"	18°78'6"					85505	17	9°03'0"	5°10'2"	85577	17	19°37'7"	11°73'1"
85305	10	6°06'8"	11°28'1"	85377	20	14°09'6"	18°19'4"					85506	31	10°09'6"	5°07'8"	85578	15	9°38'4"	12°50'0"
85306*	49	6°68'4"	11°20'0"	85378	26	20°76'4"	18°80'6"					85507	22	12°28'5"	5°50'8"	85579	10	11°09'2"	12°53'5"
85307	14	7°50'0"	11°37'7"	85379	35	20°92'6"	18°69'2"					85508	20	15°73'6"	5°93'0"	85580	42	12°58'4"	12°80'8"
85308	12	7°84'2"	11°34'0"	85380	34	21°14'0"	18°52'9"					85509	20	17°17'8"	5°67'4"	85581	23	12°88'2"	12°69'3"
85309	30	9°09'6"	11°49'6"	85381	21	21°93'4"	18°09'8"					85510	28	21°02'0"	5°10'8"	85582	16	13°30'3"	12°00'6"
85310	33	11°93'2"	11°13'0"	85382	17	25°71'0"	18°68'4"					85511	13	0°02'2"	6°00'8"	85583	17	13°94'0"	12°63'4"
85311	33	12°61'2"	11°51'7"	85383	10	6°44'4"	19°76'6"					85512	29	1°03'3"	6°42'8"	85584	17	14°28'6"	12°67'3"
85312	23	13°43'1"	11°54'4"	85384*	45	10°08'0"	19°00'8"					85513	25	11°70'0"	6°05'4"	85585	24	25°44'8"	12°58'2"
85313	12	15°60'3"	11°44'9"	85385	34	12°13'1"	19°72'0"					85514	29	12°50'8"	6°09'0"	85586*	48	0°38'0"	13°26'1"
85314	12	18°39'9"	11°87'4"	85386	39	12°50'6"	19°74'2"					85515*	160	12°88'8"	6°45'2"	85587	15	2°85'6"	13°54'4"
85315	12	0°20'8"	12°52'0"	85387	32	18°87'2"	19°62'4"					85516	13	16°93'4"	6°75'0"	85588	15	4°31'8"	13°13'8"
85316	14	4°24'4"	12°55'6"	85388	30	21°50'2"	19°64'5"					85517	14	18°98'8"	6°04'0"	85589	11	5°48'5"	13°55'2"
85317																			

85601	27	11°43'	14°77'	85673	21	10°23'	19°67'	85745	15	2°78'	25°93'	85837	33	12°29'	4°34'	85909	28	3°86'	15°30'
85602	33	16°88'	14°324	85674	24	10°85'	19°828	85746	51	4°95'	25°45'	85838	20	16°33'	4°47'	85910	58	5°23'	15°40'
85603	18	18°684	14°708	85675	18	11°25'	19°634	85747	22	5°53'	25°49'	85839	26	16°76'	4°27'	85911	12	5°28'	15°878
85604	54	20°36'	14°920	85676	18	14°65'	19°083	85748	11	5°608	25°420	85840	13	25°74'	4°618	85912	20	9°152	15°070
85605	17	22°904	14°312	85677	22	16°50'	19°514	85749	12	5°651	25°413	85841	22	4°908	5°382	85913	18	11°136	15°423
85606	33	24°400	14°490	85678	20	20°824	19°692	85750	17	6°188	25°032	85842	68	5°694	5°898	85914	12	12°484	15°035
85607	28	25°560	14°440	85679	45	23°113	19°588	85751	26	8°516	25°303	85843	20	11°461	5°981	85915	55	18°760	15°618
85608	19	25°700	14°530	85680	25	25°929	19°608	85752	14	8°996	25°725	85844	27	14°804	5°675	85916	20	18°857	15°485
85609	29	1°268	15°530	85681	28	0°062	20°016	85753	26	9°194	25°940	85845	39	17°120	5°901	85917	14	20°485	15°918
85610	18	3°554	15°968	85682	12	6°092	20°879	85754	20	10°002	25°612	85846	12	25°190	5°362	85918	30	22°201	15°284
85611	18	6°068	15°372	85683	12	6°202	20°668	85755	10	13°390	25°632	85847	31	1°766	6°755	85919	16	22°658	15°191
85612	66	11°860	15°594	85684	26	7°208	20°500	85756	13	17°466	25°080	85848	40	1°852	6°726	85920	15	24°910	15°338
85613	15	11°912	15°395	85685	15	7°540	20°150	85757	15	23°062	25°639	85849	20	3°551	6°280	85921	24	4°660	16°918
85614	23	12°118	15°932	85686	25	7°556	20°550	85758	11	25°196	25°390	85850	27	11°852	6°690	85922	10	6°740	16°852
85615	18	15°354	15°634	85687	13	8°144	20°114					85851	26	22°040	6°893	85923	25	7°630	16°272
85616	16	15°355	15°150	85688	29	8°388	20°825					85852	31	23°558	6°535	85924	40	8°500	16°306
85617	15	16°200	15°775	85689	23	9°175	20°094					85853	22	23°595	6°871	85925	11	11°982	16°766
85618	11	19°340	15°470	85690	41	11°246	20°990					85854	23	25°280	6°274	85926	14	14°284	16°267
85619	52	19°858	15°955	85691	15	12°328	20°742					85855	20	2°977	7°084	85927	16	24°572	16°821
85620	13	21°555	15°278	85692	16	12°758	20°968					85856	42	7°860	7°601	85928	33	24°765	16°836
85621	26	22°008	15°857	85693	28	20°324	20°490					85857	10	11°700	7°900	85929	32	0°365	17°194
85622	63	23°364	15°277	85694	67	2°058	21°234					85858	20	16°266	7°484	85930	32	1°429	17°674
85623	21	23°830	15°662	85695	49	2°948	21°555					85859	15	6°129	8°486	85931	13	3°605	17°966
85624	24	25°099	15°494	85696	20	3°700	21°330					85860	28	7°050	8°357	85932	13	7°762	17°640
85625	30	25°885	15°079	85697	18	7°999	21°784					85861	12	9°358	8°709	85933	20	11°166	17°000
85626	23	0°636	16°708	85698	19	10°002	21°804					85862	21	14°812	8°472	85934	32	12°096	17°448
85627	19	1°294	16°180	85699	25	10°120	21°994					85863	55	18°430	8°345	85935	37	12°692	17°680
85628	16	3°094	16°614	85700	16	12°270	21°652					85864	12	20°929	8°330	85936	11	13°204	17°850
85629	14	5°640	16°439	85701	32	12°879	21°306					85865	21	23°090	8°718	85937	15	14°074	17°202
85630	18	8°038	16°118	85702	28	13°328	21°077					85866	12	24°582	9°478	85938	12	19°102	17°134
85631	15	9°282	16°764	85703	20	13°760	21°636					85867	19	25°745	9°908	85939	50	24°420	17°786
85632	65	9°976	16°986	85704	16	14°416	21°298					85868	35	1°872	10°940	85940	34	25°966	17°134
85633	17	12°018	16°356	85705	14	14°669	21°485					85869	12	4°642	10°508	85941	30	25°74	18°512
85634	14	12°186	16°332	85706	17	17°710	21°485					85870	12	4°884	10°279	85942	24	25°298	18°398
85635	20	12°760	16°471	85707	21	18°364	21°904					85871	22	10°958	10°934	85943	85	7°472	18°334
85636	13	15°217	16°409	85708	19	18°840	21°764					85872	22	21°180	10°689	85944	30	10°290	18°943
85637	27	16°690	16°266	85709	10	18°981	21°828					85873	44	24°202	10°425	85945	26	13°045	18°950
85638	11	17°738	16°434	85710	18	1°644	22°488					85874	25	25°024	10°280	85946	20	18°020	18°884
85639	49	17°779	16°520	85711	28	2°310	22°430					85875	40	25°539	10°548	85947	15	20°822	18°476
85640	35	18°610	16°058	85712	19	4°480	22°136					85876	26	0°440	11°217	85948	18	24°098	18°705
85641	14	19°000	16°648	85713	28	5°900	22°568					85877	44	6°310	11°198	85949	15	24°564	18°728
85642	10	19°230	16°572	85714	40	6°020	22°642					85878	22	8°372	11°290	85950	20	24°856	18°565
85643	32	22°375	16°943	85715	24	6°782	22°228					85879	18	10°980	11°530	85951	45	1°120	19°834
85644	27	4°571	17°061	85716	22	16°410	22°382					85880	21	17°052	11°910	85952	24	3°080	19°158
85645	39	8°842	17°181	85717	30	17°284	22°522					85881	20	20°465	11°670	85953	24	3°942	19°830
85646	10	11°256	17°467	85718	20	23°720	22°010					85882	12	21°345	11°336	85954	19	3°570	19°141
85647	16	11°367	17°222	85719	14	25°170	22°460					85883	14	21°210	11°756	85955	31	8°570	19°030
85648	14	12°387	17°434	85720	29	25°482	22°836					85884	18	3°310	12°808	85956	30	9°865	19°890
85649	24	13°572	17°146	85721	25	2°007	23°135					85885	25	10°216	12°678	85957	16	14°450	19°956
85650	30	13°756	17°048	85722	24	2°175	23°465					85886	34	3°484	13°248	85958	20	17°700	19°735
85651	48	17°908	17°498	85723	10	5°124	23°524					85887	25	12°880	12°004	85959	22	18°745	19°400
85652	27	18°840	17°706	85724	28	5°316	23°845					85888	35	3°750	13°674	85960	19	19°884	19°761
85653	15	20°795	17°924	85725	21	5°942	23°650					85889	14	5°326	13°157	85961	36	20°180	19°869
85654	33	23°438	17°430	85726	14	11°791	23°052					85890	15	5°091	13°048	85962	20	23°012	19°572
85655	16	25°610	17°740	85727	11	12°102	23°166					85891	12	7°038	13°790	85963	20	23°773	19°236
85656	26	0°458	18°460	85728	14	19°600	23°657					85892	12	19°420	13°365	85964	11	25°626	19°246
85657	12	1°552	18°704	85729	47	19°990	23°982					85893	10	0°872	14°558	85965	10	4°840	20°319
85658	14	1°778	18°200	85730	21	20°780	23°930					85894	30	2°368	14°725	85966	31	9°821	20°162
85659	24	2°426	18°062	85731	19	24°028	23°168					85895	16	3°340	14°348	85967	38	22°536	20°065
85660	86	4°842	18°052	85732	17	25°188	23°516					85896	14	3°370	14°666	85968	12	24°826	20°311
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85662	14	8°366	18°195	85734	27	5°298	24°667					85898	16	3°670	14°755	85970	12	5°174	21°443
85663	23	9°046	18°084	85735	41	5°795	24°837					85899	20	7°786	14°985	85971	44	5°745	21°194
85664	33	10°812	18°230	85736	18	5°954	24°932					85900	25	8°325	14°922	85972	11	7°745	21°470
85665	17	12°742	18°476	85737	19	9°677	24°464					85901	38	13°260	14°684	85973	20	9°013	21°656
85666	13	15°612	18°250	85738	25	10°194	24°190					85902	12	15°265	14°250	85974	27	9°553	21°656
85667	21	15°726	18°090	85739	28	15°256	24°170					85903	22	22°600	14°545	85975	17	10°690	21°265
85668	16	20°426	18°319	85740	18	15°426	24°770					85904	25	23°966	14°765	85976	18		



85981	40	21-650	21-224	86059	30	6-771	1-759	86131	10	22-657	9-478	86203*	37	4-074	17-940	86275	26	25-732	22-531
85982	25	22-515	21-910	86060	30	9-630	1-401	86132	29	25-627	9-580	86204	39	4-985	17-280	86276	11	1-928	23-564
85983	18	1-754	22-251	86061	32	12-720	1-881	86133	10	1-190	10-472	86205	15	5-236	17-712	86277	40	6-946	23-784
85984	25	5-888	22-560	86062*	47	14-311	1-390	86134	28	2-254	10-920	86206	26	5-511	17-782	86278	12	10-600	23-140
85985	16	9-480	22-556	86063	28	15-171	1-438	86135*	49	2-271	10-652	86207	23	8-219	17-590	86279	25	13-156	23-550
85986	16	10-666	22-305	86064	11	15-241	1-217	86136	30	3-093	10-500	86208	10	9-173	17-706	86280	14	14-002	23-156
85987	12	11-217	22-090	86065	21	15-912	1-372	86137	46	3-608	10-758	86209	19	11-348	17-007	86281	11	16-520	23-048
85988	25	12-365	22-218	86066	27	22-969	1-055	86138	23	3-810	10-116	86210	14	13-156	17-060	86282	35	22-822	23-244
85989	19	2-971	23-396	86067	25	23-053	1-040	86139	12	5-085	10-115	86211	44	14-850	17-920	86283	38	1-800	24-934
85990	34	3-522	23-062	86068*	68	24-858	1-449	86140	16	5-300	10-505	86212	26	18-690	17-680	86284	18	5-892	24-640
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85992	24	9-468	23-600	86070	12	2-277	2-117	86142	15	11-830	10-588	86214	18	2-281	18-934	86286	48	16-803	24-500
85993	19	10-780	23-261	86071	15	9-662	2-140	86143	22	16-950	10-910	86215	18	2-748	18-952	86287	22	16-903	24-068
85994	20	13-995	23-230	86072	25	10-202	2-987	86144	20	19-458	10-272	86216	20	3-036	18-786	86288	30	18-624	24-026
85995	26	15-106	23-800	86073	17	15-801	2-890	86145	31	23-165	10-313	86217	21	4-054	18-947	86289	20	19-890	24-092
85996	12	16-304	23-240	86074	27	17-408	2-505	86146	22	23-612	10-546	86218	12	8-605	18-212	86290	24	3-176	25-372
85997	20	20-820	23-210	86075	14	20-675	2-804	86147	15	2-300	11-989	86219	47	9-480	18-090	86291	10	11-911	25-350
85998	12	23-255	23-238	86076	22	4-905	3-804	86148	13	6-710	11-530	86220	39	9-766	18-342	86292	19	11-249	25-420
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86000	10	24-627	23-675	86078	40	8-600	3-142	86150	16	10-577	11-071	86222	33	9-929	18-102	86294	33	14-340	25-760
86001	22	12-074	24-935	86079	13	11-278	3-372	86151	27	11-069	11-484	86223	32	15-414	18-063	86295	14	18-182	25-243
86002	25	15-235	24-209	86080	18	19-378	3-272	86152	25	12-908	11-968	86224	29	15-858	18-032	86296	31	18-339	25-610
86003	20	18-877	24-406	86081	36	22-506	3-222	86153	37	13-485	11-428	86225	23	19-650	18-716	86297	13	18-701	25-386
86004	15	17-105	24-770	86082	11	3-282	4-642	86154	20	13-516	11-161	86226	33	21-782	18-326	86298	17	21-914	25-740
86005	14	18-938	24-569	86083	17	3-732	4-828	86155	14	14-898	11-726	86227	19	23-308	18-934	86299	18	22-947	25-640
86006	19	19-116	24-645	86084	18	4-660	4-434	86156	23	16-492	11-302	86228	11	23-465	18-410				
86007	12	23-172	24-508	86085	10	17-859	4-015	86157*	50	16-983	11-180	86229	19	23-648	18-242				
86008	36	23-538	24-698	86086*	49	19-098	4-629	86158	30	20-570	11-522	86230	18	1-208	19-817				
86009	44	5-017	25-402	86087	13	21-803	4-328	86159	14	10-718	12-952	86231	12	1-224	19-101				
86010	12	5-080	25-556	86088	15	3-198	5-578	86160	18	12-034	12-061	86232	19	1-962	19-470				
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86012	30	6-170	25-380	86090	41	7-802	5-120	86162*	58	22-988	12-828	86234	17	13-684	19-750				
86013	15	8-640	25-375	86091	42	8-507	5-432	86163	20	23-082	12-492	86235	36	14-390	19-155				
86014	83	8-756	25-494	86092	15	10-742	5-850	86164	15	4-960	13-052	86236	24	14-420	19-140				
86015	42	13-855	25-691	86093	23	13-497	5-222	86165	10	6-358	13-788	86237	11	17-652	19-702				
86016	25	14-088	25-308	86094*	66	15-564	5-842	86166*	53	7-168	13-379	86238	13	21-970	19-900				
86017	29	16-870	25-738	86095	19	16-388	5-278	86167	39	8-062	13-580	86239	19	22-070	19-543				
86018	38	17-125	25-968	86096	14	22-686	5-554	86168	35	9-320	13-577	86240	12	23-095	19-532				
86019	15	19-707	25-060	86097	10	23-210	5-103	86169	12	13-901	13-388	86241	28	24-316	19-182				
86020	24	21-545	25-502	86098	30	6-776	6-170	86170	10	17-131	13-421	86242	13	25-413	19-016				
86021	25	22-442	25-775	86099	26	3-296	6-490	86171	28	23-568	13-362	86243	39	0-738	20-318				
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				86101	41	12-984	6-017	86173	24	0-730	14-798	86245	26	6-441	20-670				
				86102	34	25-539	6-492	86174	22	2-097	14-998	86246	14	8-134	20-165				
				86103	29	0-066	7-152	86175	43	2-700	14-780	86247	29	8-839	20-539				
				86104	23	1-620	7-110	86176	12	7-793	14-578	86248	30	17-404	20-920				
				86105	11	8-040	7-045	86177*	74	13-416	14-516	86249	16	18-112	20-612				
				86106	29	11-376	7-428	86178	15	19-270	14-003	86250	31	18-136	20-340				
				86107*	52	12-464	7-540	86179	44	19-820	14-768	86251	36	19-905	20-178				
				86108	16	13-115	7-998	86180	22	19-982	14-815	86252	14	25-312	20-062				
				86109	23	15-242	7-679	86181	22	20-557	14-046	86253	10	2-410	21-426				
				86110	22	16-221	7-840	86182	27	22-228	14-089	86254	26	9-090	21-140				
				86111	15	19-004	7-961	86183*	51	25-191	14-466	86255	46	13-528	21-390				
				86112	10	23-274	7-122	86184	30	0-340	15-540	86256	45	13-919	21-352				
				86113	21	24-206	7-926	86185	18	0-792	15-441	86257	14	14-538	21-712				
				86114	25	1-140	8-961	86186	12	2-242	15-588	86258	15	14-697	21-948				
				86115	15	7-960	8-498	86187	16	3-048	15-558	86259	52	16-247	21-891				
				86116	39	10-690	8-584	86188	12	7-932	15-580	86260	11	18-252	21-720				
				86117	38	11-220	8-848	86189	10	10-238	15-942	86261	21	0-744	22-159				
				86118	20	17-152	8-781	86190	19	10-668	15-299	86262	73	8-062	22-377				
				86119	10	23-440	8-824	86191	28	10-695	15-320	86263	31	8-310	22-659				
				86120	10	25-446	8-562	86192	14	11-872	15-030	86264	23	8-550	22-487				
				86121	10	2-642	9-702	86193	20	18-246	15-661	86265	16	9-440	22-732				
				86122	16	5-530	9-224	86194	13	21-138	15-240	86266	11	9-587	22-584				
				86123	14	9-778	9-680	86195	35	22-367	15-290	86267	10	11-440	22-870				
				86124	11	11-234	9-648	86196*	57	7-442	16-496	86268	16	12-806	22-851				
				86125	25	12-150	9-819	86197	14	7-489	16-150	86269	28	13-990	22-722				
				86126	33	16-060	9-830	86198	10	25-167	16-236	86270	35	16-870	22-223				
				86127	12	17-319	9-094	86199	12	25-524	16-466	86271	12	19-382	22-398				
				86128	14	17-750	9-824	86200*	53	2-580	17-410	86272	32	20-238	22-778				



86324	12	16°390	3°652	86363	45	20°299	7°494	86402	12	14°345	13°788	86441	14	23°506	17°924	86480	21	7°799	21°386
86325	24	17°108	3°174	86364	16	24°880	7°655	86403	40	17°730	13°236	86442	17	1°540	18°685	86481	30	14°312	21°166
86326*	56	18°038	3°004	86365	19	2°300	8°204	86404	14	18°752	13°760	86443	20	3°726	18°524	86482	38	15°806	21°095
86327*	60	23°712	3°972	86366	13	3°537	8°842	86405	29	22°054	13°632	86444	12	4°762	18°498	86483	12	21°254	21°243
86328	31	4°692	4°246	86367	12	6°240	8°044	86406	14	24°350	13°698	86445	17	7°074	18°008	86484	10	2°450	22°630
86329	22	5°135	4°616	86368	19	7°915	8°372	86407	24	0°310	14°362	86446	16	9°026	18°936	86485	10	2°536	22°513
86330	27	9°570	4°652	86369	10	12°484	8°164	86408*	51	3°269	14°745	86447*	78	15°350	18°034	86486	23	3°170	22°766
86331	12	14°038	4°064	86370	12	17°640	8°565	86409	33	6°182	14°410	86448	37	15°465	18°966	86487	41	3°574	22°770
86332	20	20°098	4°728	86371	12	0°749	9°752	86410	12	6°472	14°492	86449*	48	16°075	18°015	86488	26	3°804	22°812
86333	12	0°784	5°827	86372	29	3°719	9°862	86411*	48	7°394	14°838	86450	14	20°190	18°470	86489	16	7°936	22°953
86334	12	5°146	5°648	86373	16	6°216	9°553	86412	27	9°340	14°706	86451	18	0°145	19°818	86490	20	13°667	22°034
86335	15	6°127	5°876	86374	40	13°895	9°413	86413*	51	11°109	14°725	86452	12	1°169	19°806	86491	36	0°888	23°520
86336	14	6°215	5°630	86375	29	1°255	10°586	86414	29	15°786	14°166	86453	17	1°384	19°210	86492	12	2°838	23°564
86337	32	6°395	5°716	86376	20	1°700	10°822	86415	14	21°905	14°581	86454	29	2°390	19°458	86493	15	7°142	23°871
86338	30	6°517	5°592	86377	13	5°118	10°496	86416	34	0°446	15°564	86455	12	3°488	19°295	86494	20	7°887	23°562
86339	11	7°939	5°027	86378	20	6°120	10°216	86417	12	11°100	15°320	86456	12	7°329	19°744	86495	20	13°445	23°646
86340	12	11°652	5°982	86379	20	18°752	10°040	86418	12	12°426	15°801	86457*	69	9°825	19°107	86496	20	16°336	23°422
86341*	93	12°706	5°436	86380	24	19°716	10°575	86419*	64	13°555	15°032	86458	19	11°330	19°095	86497	44	17°838	23°740
86342	20	15°075	5°459	86381	32	21°894	10°486	86420	15	17°095	15°283	86459	24	16°125	19°350	86498	11	18°828	23°442
86343	25	18°290	5°314	86382*	87	7°213	11°882	86421	23	17°230	15°745	86460	15	17°435	19°876	86499	11	23°898	23°252
86344	36	3°634	6°773	86383	28	7°309	11°095	86422	35	20°484	15°526	86461	20	21°904	19°499	86500	17	23°980	23°656
86345	12	4°642	6°804	86384	13	7°390	11°415	86423	48	23°187	15°121	86462	32	22°685	19°728	86501	25	11°095	24°162
86346	26	4°698	6°016	86385	20	8°535	11°382	86424	13	3°606	16°744	86463	30	25°242	19°706	86502	28	12°696	24°152
86347*	74	8°328	6°864	86386	40	12°088	11°396	86425	26	6°146	16°584	86464	15	0°043	20°174	86503	10	14°864	24°862
86348	13	9°008	6°326	86387	35	14°386	11°528	86426	23	8°010	16°966	86465	22	3°385	20°341	86504	20	15°140	24°311
86349	16	9°192	6°916	86388	37	16°925	11°067	86427	28	14°786	16°587	86466	23	5°256	20°745	86505	65	20°096	24°270
86350	13	11°305	6°064	86389	15	19°228	11°146	86428	12	19°273	16°618	86467	20	9°326	20°416	86506	33	20°460	24°030
86351	11	11°305	6°755	86390	25	22°455	11°390	86429	10	20°950	16°326	86468	14	9°850	20°170	86507	14	21°145	24°631
86352	12	13°092	6°539	86391	22	2°068	12°769	86430	19	24°585	16°524	86469	13	9°950	20°213	86508	22	24°394	24°729
86353	32	16°685	6°024	86392	24	6°670	12°293	86431	31	7°209	17°374	86470	27	17°730	20°700	86509	24	25°672	24°466
86354	12	16°858	6°124	86393	44	7°182	12°026	86432	25	7°396	17°652	86471	22	19°381	20°601	86510	19	1°011	25°915
86355	25	17°266	6°588	86394	12	12°574	12°558	86433	12	9°530	17°490	86472	29	21°936	20°032	86511	40	9°337	25°726
86356*	47	18°836	6°774	86395	34	14°035	12°293	86434	14	10°635	17°298	86473	26	23°750	20°791	86512	22	17°975	25°580
86357*	48	20°632	6°399	86396	22	16°752	12°892	86435	12	10°960	17°860	86474	42	24°640	20°908	86513	10	18°750	25°132
86358	20	22°068	6°180	86397*	60	23°844	12°205	86436	28	13°034	17°914	86475	12	4°940	21°214	86514	15	20°059	25°897
86359	22	25°934	6°255	86398*	70	1°065	13°103	86437	37	16°885	17°568	86476	13	5°902	21°350	86515	16	21°702	25°988
86360	22	4°614	7°688	86399	27	1°650	13°638	86438	12	17°810	17°948	86477	30	5°966	21°526				
86361	20	14°271	7°301	86400	28	2°604	13°550	86439	35	22°700	17°509	86478	15	7°502	21°270				
86362	10	19°066	7°216	86401	19	8°200	13°338	86440	26	22°763	17°776	86479	25	7°645	21°244				

NIZAMIAH OBSERVATORY, HYDERABAD

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ASTROGRAPHIC CATALOGUE, 1900·0

ZONE  $-22^{\circ}$

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STANDARD CO-ORDINATES

OF

THE STARS IN THE CATALOGUE OF  
THE ASTRONOMISCHE GESELLSCHAFT (ALGIERS)

## EXPLANATION OF THE COLUMNS.

*Hyderabad Number.*—This is the number assigned in the preceding Catalogue of measures of plates taken at Hyderabad. Some stars occur on two plates, and in this case they have a separate Hyderabad number for each plate—thus, Algiers 21 is Hyderabad  $-22^{\circ}$ , 101, as well as  $-22^{\circ}$ , 366. Occasionally, owing to slight errors of centering the plate, a star will fall outside the réseau, so that no number can be assigned on such a plate, but the star will occur on an adjacent plate with a Hyderabad number.

*Algiers Number and Magnitude.*—These are taken direct from the Algiers Astronomische Gesellschaft Catalogue and require no explanation.

*Standard Co-ordinates.*—This name was first proposed in *M.N.R.A.S.*, vol. liv. p. 11, and has generally been adopted for the rectangular co-ordinates of a star on an ideal plate fulfilling the following conditions :—

- (i) Plate truly centred and oriented for 1900-0.
- (ii) No refraction and aberration.
- (iii) A suitable unit of length adopted.

The formulæ giving these co-ordinates are—

$$\begin{aligned}\xi &= k \cdot \tan(\alpha - A) \cdot \sec(\theta - D) \cdot \cos \theta, \\ \eta &= k \cdot \tan(\theta - D), \\ \tan \theta &= \sec(\alpha - A) \cdot \tan \delta,\end{aligned}$$

where

$\alpha, \delta$  are the R.A. and Declination of the star,  
 $A, D$  those of the plate centre,

and  $k$  depends on the adopted unit of length. For the Astrographic Catalogue the unit chosen is 5' at the plate centre, and  $k=687.54935$ .

For the computation of  $\xi, \eta$ , for each star, approximate formulæ were used, and reduced to tables. To avoid negative signs the constant 13.0000 has been added to all the values of  $\xi, \eta$  to form

$$\xi' = \xi + 13, \quad \eta' = \eta + 13,$$

and the quantities  $\xi', \eta'$  are given in the following pages. The co-ordinates are thus referred to a corner of the réseau and not to the plate centre.

The Right Ascensions and Declinations used are those given in the Catalogue for 1900-0 without any application of proper motions, so that the co-ordinates printed in the following Catalogue represent simply the places given in the Algiers Meridian Catalogue.

For determining plate constants, stars known or suspected to have sensible proper motions have been excluded from the solution. A few stars whose catalogue places appeared to be erroneous have also been omitted.

-22°.

## STANDARD CO-ORDINATES.

0<sup>h</sup> 0<sup>m</sup>—1<sup>h</sup> 44<sup>m</sup>

Reference No.					Mag.	Standard co-ordinates, 1900-0.				Reference No.					Mag.	Standard co-ordinates, 1900-0.				Reference No.					Mag.	Standard co-ordinates, 1900-0.						
Hyd.		Algiers.					ξ'		η'		Hyd.		Algiers.					ξ'		η'		Hyd.		Algiers.					ξ'		η'	
R.A. 0 <sup>h</sup> 0 <sup>m</sup>										R.A. 0 <sup>h</sup> 40 <sup>m</sup>										R.A. 1 <sup>h</sup> 12 <sup>m</sup> (continued)												
1	9981	9.0	1.2193	0.8034	1188	159	9.0	0.2938	7.5496	2007	323	8.2	8.9084	16.0932																		
27	9982	8.5	1.9036	4.1891	1251	171	8.6	7.0949	15.4994	1933	324	9.1	9.7124	6.0838																		
102	9983	9.1	2.1477	12.5648	1157	172	9.2	7.2128	3.1071	1987	328	8.7	11.1671	13.1367																		
42	9986	9.1	4.7051	0.1580	1277	173	9.2	7.5206	18.9851	2015	331	8.6	12.8613	17.0587																		
147	9988	8.9	6.3978	18.3792	1259	174	8.5	7.8776	10.0682	1964	337	9.1	15.8849	10.0307																		
17	9993	9.2	10.7498	2.4919	1196	176	8.7	9.7006	8.4235	1917	342	8.9	18.1073	2.3325																		
57	9995	9.3	11.6198	6.5611	..	177	8.8	9.9998	0.3725	1990	344	8.8	21.2591	12.7613																		
112	4	9.0	16.9269	13.7023	1197	179	8.9	10.1572	8.5377	1940	345	9.0	21.7317	6.3285																		
73	7	9.3	17.6939	8.6490	1247	180	9.2	12.2349	14.7715	1907	346	7.4	22.0882	0.9783																		
141	9	8.8	18.3146	17.6485	1270	181	6.2	12.4274	19.6711	R.A. 1 <sup>h</sup> 20 <sup>m</sup>																						
145	13	8.8	21.8932	17.7731	1238	184	8.9	12.8711	12.4357	2157	349	9.0	4.5161	12.2287																		
69	15	9.1	22.1309	8.0929	1183	187	8.9	14.8381	6.4700	2202	351	8.8	5.1650	18.5612																		
109	17	8.5	22.2013	12.6222	1222	189	9.0	15.1406	10.1676	2171	352	8.3	5.4435	13.7072																		
101	21	8.8	25.5038	12.3045	1163	190	8.7	16.4535	3.5177	2129	357	9.0	6.7500	5.4718																		
153	22	9.0	25.7778	18.5415	1231	191	9.0	16.6363	11.9989	2165	358	8.0	7.2024	12.4029																		
R.A. 0 <sup>h</sup> 8 <sup>m</sup>					1178	199	8.9	19.1982	6.0043	2118	359	8.0	7.5431	4.1252																		
366	21	8.8	3.2397	12.2866	1263	202	6.1	21.5236	16.2389	2141	361	7.6	8.1505	8.8061																		
427	22	9.0	3.5954	18.5188	1218	207	6.9	24.5971	9.3859	2204	368	8.5	11.2993	18.5669																		
428	25	7.6	6.5874	18.8871	1185	208	9.3	24.7621	6.4042	2182	369	8.0	11.4712	16.2894																		
348	27	8.3	8.0206	10.6639	..	210	8.6	25.1294	12.3608	2143	372	8.9	12.5654	8.4151																		
R.A. 0 <sup>h</sup> 16 <sup>m</sup>					R.A. 0 <sup>h</sup> 48 <sup>m</sup>										R.A. 1 <sup>h</sup> 28 <sup>m</sup>																	
565	56	9.2	0.2171	2.9520	1386	207	6.9	2.2951	9.3801	2212	373	9.0	13.2572	19.4670																		
615	58	8.9	0.6443	14.2968	1377	208	9.3	2.4211	6.3967	2105	380	7.3	19.2700	1.1403																		
620	59	9.1	0.6551	14.9229	1413	210	8.6	2.8662	12.3477	2217	383	6.0	21.8679	19.6918																		
635	65	8.3	4.6103	3.6285	1389	212	8.6	3.9846	9.1068	2106	386	7.6	22.0601	0.4359																		
593	66	7.3	5.2554	9.3437	1373	214	8.9	7.3149	6.0635	2174	387	8.6	22.2457	13.9382																		
596	67	9.1	5.5980	10.2367	1423	215	8.0	8.5119	13.0236	R.A. 1 <sup>h</sup> 36 <sup>m</sup>																						
639	72	7.7	8.8803	17.3538	1392	220	8.2	11.0175	8.8031	2588	429	8.9	0.4403	14.7173																		
649	81	9.2	17.5463	18.7895	1384	222	8.3	11.8308	7.4484	2572	430	9.1	1.8163	12.5506																		
572	83	9.2	19.7405	4.0248	1424	224	7.3	12.2841	12.7075	2514	431	9.0	1.8514	3.2593																		
626	93	7.5	25.9849	15.2741	1405	228	8.5	15.7657	10.9945	2559	438	5.2	7.6579	10.4280																		
R.A. 0 <sup>h</sup> 24 <sup>m</sup>					1450	231	9.1	16.9115	18.7033	2507	444	8.8	10.3687	1.2999																		
835	93	7.5	3.7596	15.2497	1426	232	8.5	17.8265	13.1945	2534	445	8.8	12.0242	7.2200																		
829	94	9.0	5.0988	14.2458	1452	234	8.0	19.6610	18.7040	2501	449	8.9	12.7951	0.8063																		
845	95	7.5	5.3224	15.7318	1367	238	8.6	21.7861	3.9539	2601	452	7.1	14.1557	15.7044																		
770	99	8.7	6.9926	3.6285	1575	245	7.8	4.7473	3.6075	2561	453	8.6	14.3653	11.1372																		
756	100	8.8	7.5172	1.7987	1616	246	8.7	5.3060	9.6494	2596	463	8.8	18.5476	14.8089																		
812	105	8.9	10.3473	11.1688	1553	253	9.0	10.1699	0.9702	2586	465	8.4	19.9229	14.4949																		
825	113	8.7	16.2086	3.1192	1605	255	8.8	10.6955	8.1989	2510	469	7.7	23.1406	2.1028																		
818	117	8.6	18.9773	11.8485	1656	265	8.0	16.5800	14.7715	R.A. 1 <sup>h</sup> 44 <sup>m</sup>																						
869	126	8.8	24.8638	17.8980	1658	266	8.0	17.2787	14.7771	2706	469	7.7	0.7435	2.1162																		
R.A. 0 <sup>h</sup> 32 <sup>m</sup>					1565	267	8.8	18.0041	1.8944	2850	473	8.2	3.8224	18.8860																		
1080	126	8.8	2.6732	17.8887	1595	272	9.1	23.0597	6.1732	2745	478	6.4	9.9321	5.1193																		
1086	131	9.0	7.0203	18.2015	1601	275	8.9	23.6634	7.3186	2718	481	8.3	12.0737	2.6949																		
1070	136	8.7	8.5758	16.5519	1579	277	7.5	24.0036	4.2616	2769	483	8.6	13.1944	7.0243																		
979	138	8.0	10.5310	4.7220	1770	272	9.1	0.7157	6.1874	2735	493	8.9	16.9472	4.0441																		
1042	139	8.8	10.8013	12.3941	1775	275	8.9	1.3345	7.3250	2791	499	9.1	21.0990	9.2813																		
1046	145	9.0	16.0602	12.5194	1766	277	7.5	1.6346	4.2639	2804	500	8.9	23.0031	11.0501																		
1019	146	8.3	16.4966	9.9269	1812	280	8.5	4.5850	14.2562	2714	501	8.1	23.2892	2.2830																		
958	147	8.9	16.5963	2.0700	1825	284	8.9	5.9557	15.5164	2763	503	8.9	25.1025	6.6169																		
1002	150	8.7	17.9288	8.0880	..	287	9.0	9.5818	0.1340																							
1029	153	9.0	18.7051	10.9421	1822	290	8.5	10.7906	14.8024																							
1059	156	8.9	20.4526	14.5551	1815	293	8.9	11.7345	13.6718																							
1004	159	9.0	22.6200	7.5298	1854	297	8.9	13.7860	19.5632																							
					1842	305	9.2	18.9791	19.3491																							
					1754	307	9.0	20.4220	0.5824																							
					1836	311	8.9	21.3025	18.2374																							
					1756	313	7.6	23.3999	0.8965																							
					R.A. 1 <sup>h</sup> 12 <sup>m</sup>																											
					1901	313	7.6	0.9870	0.9066																							
					2029	316	9.0	4.5178	18.7087																							
					1913	317	8.6	4.5795	1.5482																							

Reference No.					Reference No.					Reference No.				
Hyd.		Algiers.	Standard co-ordinates, 1900-0.		Hyd.		Algiers.	Standard co-ordinates, 1900-0.		Hyd.		Algiers.	Standard co-ordinates, 1900-0.	
			ℓ'.	η'.				ℓ'.	η'.				ℓ'.	η'.
<b>R.A. 1<sup>h</sup> 52<sup>m</sup></b>					<b>R.A. 2<sup>h</sup> 24<sup>m</sup></b>					<b>R.A. 2<sup>h</sup> 56<sup>m</sup></b>				
3045	500	8-9	0-7230	11-0649	4041	639	9-0	0-4849	11-9509	4904	797	7-9	3-6290	8-8351
2959	501	8-1	0-8946	2-2944	4050	645	9-1	3-3139	12-8389	4973	798	8-0	4-0324	19-3603
3006	503	8-9	2-7641	6-6049	3960	645	8-8	3-4467	2-0313	4979	801	8-6	5-4795	20-5675
3033	505	8-9	4-1081	9-8789	4073	647	8-0	4-1459	16-1426	4803	806	9-0	9-8964	2-5534
3126	510	8-9	9-5662	19-4509	4019	649	8-7	5-0111	10-1572	4804	807	7-7	9-9656	3-2333
2986	511	8-5	9-5686	4-5600	4020	650	8-7	5-0266	10-2057	4805	810	7-8	12-0434	3-3930
2960	514	7-8	10-4719	1-6044	3989	652	8-6	6-9392	5-9255	4855	811	6-8	13-7847	2-0822
3099	516	8-2	10-9227	16-7726	4011	658	8-7	13-9226	8-7242	4871	812	8-9	14-0001	3-8913
3086	522	9-0	15-7780	14-6473	4053	659	8-1	14-2164	13-2251	4867	813	8-8	14-1409	2-5347
3108	523	8-1	16-1013	17-6538	4003	663	7-6	14-9193	6-7958	4977	817	9-0	16-5897	19-0832
2988	525	8-8	18-5791	5-0166	4037	664	9-0	15-5807	11-5473	4950	821	8-0	17-8040	14-7595
3028	526	7-3	19-1476	8-4668	3979	665	8-2	16-8511	4-5502	4958	826	7-5	19-7563	15-8736
2991	529	5-6	21-5659	4-7472	3985	666	8-4	17-0504	5-0084	4919	833	7-9	22-0925	10-0450
3131	531	8-2	23-5771	19-7571	4111	668	9-0	21-4172	19-2277	4959	836	9-0	22-6156	16-3799
3003	534	9-1	25-0383	5-7160	4047	670	8-7	23-3367	12-3010	4804	835	9-0	22-6604	6-8240
3005	535	8-8	25-8489	5-6443						4858	837	8-6	22-9287	2-3284
<b>R.A. 2<sup>h</sup> 0<sup>m</sup></b>					<b>R.A. 2<sup>h</sup> 32<sup>m</sup></b>					4895	838	8-9	23-8257	6-5978
3353	531	8-2	1-4107	19-7639	4286	670	8-7	1-0730	12-3114	..	839	9-1	23-9554	0-3461
3237	534	9-1	2-6883	5-7050	4329	681	6-7	7-5565	17-4045	4921	840	7-9	24-4149	10-6149
3239	535	8-8	3-4977	5-6230	4278	686	6-9	11-3752	11-0805	<b>R.A. 3<sup>h</sup> 4<sup>m</sup></b>				
3314	536	8-5	5-0394	15-5521	4272	687	8-2	12-2047	10-5825	5108	835	9-0	0-3249	6-8433
3338	539	6-6	7-2335	18-3807	4223	691	8-5	13-5459	3-4538	5205	836	9-0	0-4051	16-3996
3358	541	9-0	8-0383	19-8831	4273	693	9-0	13-6545	9-7494	5062	837	8-6	0-5347	2-3444
3332	542	7-5	8-4620	17-7269	4209	694	8-4	15-0547	2-1722	5109	838	8-9	1-4873	6-6022
3281	546	8-3	10-5119	11-0738	4358	696	8-8	17-0999	19-7774	..	839	9-1	1-5352	0-3493
3440	548	9-0	10-7715	18-7258	4246	700	8-3	18-6552	6-0574	5155	840	7-9	2-1292	10-6113
3333	549	8-3	10-8647	17-3566	4241	702	8-5	19-8791	4-8175	5113	843	8-3	4-5192	7-0725
3346	551	8-3	11-7107	19-0984	4299	709	8-5	24-3416	13-0658	5239	844	8-3	4-6057	19-7103
..	556	9-0	13-9182	0-2795	4332	710	8-5	25-1699	17-2576	5193	848	9-1	6-2293	15-4133
3329	560	8-8	16-6591	15-8112	<b>R.A. 2<sup>h</sup> 40<sup>m</sup></b>					5055	851	8-0	9-5601	1-3933
3348	564	8-8	21-0614	19-3513	4525	709	8-5	2-0878	13-0630	5129	858	8-3	12-4861	7-8201
3228	565	8-9	21-3447	4-4545	4559	710	8-5	2-9708	17-2434	5184	859	9-0	13-5815	14-0571
3285	569	8-2	22-2550	10-9049	4498	716	8-5	5-0379	8-2329	5174	861	9-2	14-3276	13-2332
3265	574	8-7	24-3191	7-9868	4520	721	8-0	7-2196	11-7105	5195	863	8-3	14-8034	15-0270
<b>R.A. 2<sup>h</sup> 8<sup>m</sup></b>					4554	722	9-0	7-3676	15-9058	..	870	8-6	17-9543	0-2268
3495	574	8-7	1-9990	7-9848	4452	724	8-4	7-5373	0-5750	5185	871	8-0	18-0901	13-9919
3465	576	9-0	3-8019	3-6212	..	732	8-7	11-7297	0-3728	5187	873	8-7	18-5953	14-5352
3466	580	9-0	5-8603	3-8507	4584	736	7-9	14-3855	20-0346	5223	876	9-0	19-7623	17-5994
3543	588	9-1	10-1244	11-6507	4472	739	8-9	16-4212	4-4813	5213	877	9-4	20-1903	16-1243
3475	591	8-1	11-2908	4-8041	4536	741	7-5	18-2430	13-0938	5150	879	8-9	20-2647	10-3344
3549	592	8-5	11-4344	13-3324	4537	744	6-7	19-1345	13-7274	5214	880	9-1	20-4887	16-1777
3484	593	8-1	11-7050	7-4012	4494	745	8-8	19-1677	7-0092	5078	883	7-3	22-8630	3-0500
3487	595	8-6	13-2316	6-8123	4538	747	9-2	20-1749	14-4320	5060	885	6-8	23-5274	0-9849
3515	596	8-8	13-4331	8-9724	4475	758	7-8	24-4163	3-8846	<b>R.A. 3<sup>h</sup> 12<sup>m</sup></b>				
3488	597	6-8	13-9879	6-6443	4476	760	9-1	25-5779	4-0561	5365	883	7-3	0-4784	3-0667
3601	599	8-9	15-6591	18-7241	<b>R.A. 2<sup>h</sup> 48<sup>m</sup></b>					5351	885	6-8	1-1157	0-9934
3454	602	8-5	16-9836	1-0411	4669	758	7-8	2-0424	3-8816	5483	892	9-0	4-8058	17-0883
3525	608	8-1	21-6648	10-4231	4670	760	9-1	3-2061	4-0384	5493	895	8-6	6-4171	19-4344
3492	610	9-0	22-7731	6-0944	4741	761	9-1	4-1782	13-8797	5463	896	8-3	8-3875	14-4540
3505	611	8-0	23-9473	8-0402	4754	764	8-6	5-1965	14-0310	5500	901	9-0	10-4875	19-6712
3588	612	8-9	25-3239	16-7613	4788	767	8-8	6-4494	19-9993	5501	903	9-5	10-6854	19-9739
<b>R.A. 2<sup>h</sup> 16<sup>m</sup></b>					4652	769	8-8	7-4711	0-8173	5372	908	8-8	11-4210	3-3559
3747	610	9-0	0-4362	6-7121	4736	770	9-1	7-8420	12-5775	5502	911	8-9	13-8907	19-8515
3762	611	8-0	1-6277	8-0429	4685	772	4-6	8-8155	5-9993	5488	912	8-5	14-0194	18-2796
3836	612	8-9	3-1181	16-7451	4722	773	8-8	9-2271	11-0475	5363	914	8-9	15-0324	1-5895
3858	615	8-8	4-7296	20-4185	4745	774	8-8	9-7357	13-6838	5485	922	9-0	18-1153	16-5561
3838	618	9-1	7-9674	17-4503	4711	776	8-0	10-8717	9-4166	5471	925	3-6	21-5269	14-4828
3752	622	8-2	10-1709	6-3842	4792	777	9-0	11-1004	20-5310	5400	932	8-9	25-8371	6-5998
3736	627	8-3	11-5737	4-4406	4783	783	7-7	13-6051	8-6961	<b>R.A. 3<sup>h</sup> 20<sup>m</sup></b>				
3863	628	8-1	12-4709	19-9378	4781	784	6-8	15-2248	18-9922	5635	932	8-9	3-4984	6-5785
3840	633	7-9	17-6150	16-9361	4680	787	9-1	18-3481	4-9841	5684	933	9-0	3-8586	12-0061
3768	634	9-1	18-2323	7-8039	4704	788	7-3	19-1345	8-2028	5672	934	8-8	4-7747	10-8214
3832	637	9-0	21-4930	16-1600	4705	789	8-7	19-3761	8-3770	5761	938	8-7	6-3322	18-5147
3801	639	9-0	22-7535	11-9328	4681	790	9-0	19-5332	5-3701	5620	939	6-3	6-0027	6-4609
3811	645	9-1	25-5706	12-8576	4726	793	8-8	21-7436	10-9780					
3716	646	8-8	25-8446	2-0520	4716	797	7-9	25-9382	8-8580					



Reference No.				Reference No.				Reference No.			
Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.
		Algiers.	ξ'. η'.			Algiers.	ξ'. η'.			Algiers.	ξ'. η'.
<b>R.A. 3<sup>h</sup> 20<sup>m</sup> (continued)</b>				<b>R.A. 3<sup>h</sup> 44<sup>m</sup> (continued)</b>				<b>R.A. 4<sup>h</sup> 0<sup>m</sup> (continued)</b>			
5622	942	8.7	8-2593 6-3488	6580	1068	8.8	4-9341 20-8951	6983	1211	8.8	14-6874 2-2345
5688	944	9.4	10-3142 11-7354	6545	1069	8.2	4-9787 18-1330	7065	1212	8.0	15-2751 9-0975
5593	945	7.4	12-0877 4-4215	6387	1071	9.2	6-0877 4-5035	7160	1213	8.9	15-5157 17-0086
5698	947	8.7	12-8781 13-2307	6398	1072	9.0	6-5663 5-6928	7163	1217	8.9	17-7796 17-8232
5626	950	7.9	15-1165 6-1203	6366	1073	9.0	7-2113 2-0554	7127	1219	9.0	18-5811 14-4695
5754	952	9.1	15-8799 16-9991	6523	1075	9.1	7-4965 16-3957	6988	1222	9.0	19-1566 2-1983
5768	953	8.3	17-2373 18-0237	6537	1079	8.9	9-9194 16-8558	7089	1223	8.5	19-6269 12-2739
5778	955	8.9	17-7527 19-1578	6485	1082	8.6	12-3338 11-6668	7143	1227	7.1	20-3264 16-1613
5570	957	8.9	18-0546 2-5142	6562	1084	8.7	12-9672 19-0077	7199	1229	8.8	20-5650 20-9371
5701	959	8.8	19-5142 13-2182	6575	1085	8.7	13-0171 19-7210	7022	1232	8.5	24-1518 5-7664
5598	966	9.0	23-1172 4-5583	6380	1087	5.2	13-5427 3-5051	7132	1234	8.8	24-3664 14-9809
5584	970	9.1	24-6271 3-2575	6371	1094	9.0	15-6222 3-1749	7076	1239	8.7	25-3476 10-5521
<b>R.A. 3<sup>h</sup> 28<sup>m</sup></b>				6531	1100	8.7	17-5179 16-0994	7123	1243	8.6	25-7133 14-2618
5873	964	9.0	0-0050 9-9916	6354	1104	9.1	19-1273 0-4682	<b>R.A. 4<sup>h</sup> 8<sup>m</sup></b>			
5803	966	9.0	0-7522 4-5718	6410	1106	6.6	21-7380 7-9783	7300	1232	8.5	1-8025 5-7667
5911	975	8.2	4-2368 9-0110	6418	1108	8.9	22-7448 7-3845	7381	1234	8.8	2-1376 14-9776
5912	978	8.4	5-2430 10-1964	6569	1110	8.9	23-1393 19-1952	7347	1239	8.7	3-0608 10-5364
5998	985	9.2	8-3423 20-0666	6420	1112	8.8	24-3736 6-6573	7372	1243	8.6	3-4748 14-2408
5859	990	8.8	12-0198 8-0450	6374	1114	8.8	24-8426 2-5101	7253	1245	8.5	3-9968 0-6299
5859	991	9.1	12-0244 0-3257	6518	1116	8.9	25-1593 15-2728	7422	1252	9.0	6-3566 19-6217
5859	993	8.8	14-4965 2-4259	6579	1118	7.4	25-4292 19-9498	7342	1254	9.0	6-5256 10-1675
5902	997	9.3	16-7728 16-1679	<b>R.A. 3<sup>h</sup> 52<sup>m</sup></b>				7336	1263	8.8	11-2808 9-0966
5927	998	4.3	16-8153 12-6206	6728	1108	8.9	0-4165 7-4027	7402	1265	9.1	11-8255 17-4407
5971	1000	8.8	18-1903 17-4544	6847	1110	8.9	0-9656 19-2080	7328	1267	8.6	14-4585 8-4973
5987	1001	8.6	19-2014 18-7569	6716	1112	8.8	2-0359 6-6547	7368	1270	9.1	16-5388 12-6764
5956	1003	8.9	21-6076 15-3662	6670	1114	8.8	2-4508 2-5020	7294	1279	9.0	17-9324 5-0179
5856	1009	9.2	24-4271 0-6784	6800	1116	8.9	2-9313 15-2591	7268	1280	8.8	18-7432 1-9190
<b>R.A. 3<sup>h</sup> 36<sup>m</sup></b>				6855	1118	7.4	3-2651 19-9317	7262	1281	8.7	18-7930 9-7356
6053	1009	9.2	2-0112 0-6757	6693	1124	8.5	4-9312 4-7461	7386	1282	9.0	18-8340 15-5631
6173	1012	8.9	3-9295 14-4613	6864	1125	8.7	6-9101 21-1270	7395	1286	8.9	20-8080 15-8612
6075	1013	8.9	4-0332 3-7120	6801	1129	9.0	7-6905 14-5870	7419	1290	7.1	22-8658 17-8249
6216	1016	8.8	6-1186 18-1015	6653	1132	8.6	8-1070 9-7449	7304	1291	9.1	23-3700 11-9254
6238	1017	8.5	7-1577 20-1213	6790	1137	9.0	9-5110 14-1509	7312	1292	9.2	23-5597 6-4982
6062	1019	9.0	7-4296 19-3377	6731	1138	9.0	9-5519 7-9934	7264	1294	8.3	24-6109 0-5555
6120	1020	8.8	8-2677 8-7121	6758	1139	8.6	10-2079 11-3770	<b>R.A. 4<sup>h</sup> 16<sup>m</sup></b>			
6250	1022	8.4	9-8976 20-7682	6791	1142	9.2	10-9310 14-5383	7693	1290	7.1	0-6743 17-8412
6068	1027	9.3	10-8089 3-0614	6771	1143	8.6	10-9989 11-6629	7623	1291	9.1	1-1017 11-9654
6230	1028	8.4	12-0160 18-9206	6805	1145	8.9	11-2890 15-0009	7555	1292	9.2	1-2199 6-5059
6124	1031	9.0	13-1811 9-4163	6669	1147	9.0	12-5483 2-1181	7501	1294	8.3	2-1935 0-5505
6196	1033	9.1	13-6348 16-2664	6657	1148	9.2	12-5541 0-6731	7720	1296	8.8	4-2056 19-8211
6224	1039	9.0	15-5101 18-4796	6705	1152	9.2	14-9776 6-3825	7531	1298	9.0	4-4382 4-1514
6107	1042	8.3	17-5407 7-6842	6754	1158	9.2	17-6594 10-5454	7558	1302	8.4	5-4554 6-9666
6058	1044	8.9	18-5809 0-9997	6776	1166	9.1	21-4570 11-7576	7721	1304	9.0	6-4082 20-3382
6097	1045	8.9	18-6606 6-2638	6692	1170	9.1	23-6066 3-9415	7503	1306	6.6	7-1373 0-5263
6201	1049	8.2	19-2561 16-5913	6664	1173	8.0	25-6673 0-9801	7504	1307	8.7	7-6936 0-9102
6159	1050	8.5	19-6391 11-6281	6757	1174	9.0	25-8213 10-3557	7548	1308	9.0	8-0812 5-4391
6248	1052	8.7	21-0895 20-2662	<b>R.A. 4<sup>h</sup> 0<sup>m</sup></b>				7548	1315	9.0	11-7227 0-3245
6203	1054	8.9	22-8182 16-0644	6995	1170	9.1	1-2335 3-9489	7569	1317	7.8	13-2632 7-8917
6150	1055	8.5	23-3498 11-5340	6953	1173	8.9	3-2552 0-9618	7561	1318	8.3	15-3396 6-4903
6213	1056	8.8	23-3506 17-1963	7070	1174	9.0	3-5319 10-3341	7504	1324	7.7	15-1138 6-8306
6100	1057	8.2	24-0353 6-0898	7015	1175	9.0	4-0099 6-1111	7521	1327	8.7	16-1030 2-8770
6111	1059	8.9	25-2559 8-3646	7044	1177	8.9	4-3023 8-3475	7637	1328	7.8	17-0836 13-0852
6163	1062	8.4	25-6948 11-8254	7186	1176	7.5	4-3353 19-7006	7508	1335	8.8	20-0549 0-9076
<b>R.A. 3<sup>h</sup> 44<sup>m</sup></b>				7155	1183	9.1	5-6741 17-5441	7616	1336	8.9	20-1652 10-9993
6519	1054	8.9	0-6035 16-0814	7005	1185	7.4	6-1453 4-6110	7687	1338	8.3	20-7914 17-2568
6478	1055	8.5	1-0761 11-5442	7080	1186	8.9	6-8718 12-1623	7617	1339	8.9	20-9952 11-1995
6536	1056	8.8	1-1507 17-2063	6956	1191	8.4	8-4546 1-0181	7730	1345	9.2	22-8642 20-6379
6396	1057	8.2	1-6901 6-0915	7139	1192	8.9	8-5815 16-0596	7641	1349	8.9	24-4538 12-6571
6425	1059	8.9	2-9466 8-3505	7062	1196	7.9	9-9471 9-3337	<b>R.A. 4<sup>h</sup> 24<sup>m</sup></b>			
6480	1062	8.4	3-4245 11-8051	7084	1202	8.1	11-4213 12-3994	8083	1345	9.2	0-7095 20-6541
6426	1063	9.0	3-9997 8-4387	7049	1205	7.0	12-7550 8-4610	7995	1349	8.9	2-1940 12-6529
6521	1065	9.1	4-2292 16-4986	7018	1207	9.3	13-2393 5-3397	7899	1351	8.3	3-7596 6-3074
				7064	1208	9.0	13-5179 9-8598	7873	1353	8.5	5-1317 3-3562
								7909	1354	8.8	5-8359 7-4944

Reference No.				Reference No.				Reference No.				
Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		
Hyd.	Algiers.	ξ.	η.	Hyd.	Algiers.	ξ.	η.	Hyd.	Algiers.	ξ.	η.	
<b>R.A. 4<sup>h</sup> 24<sup>m</sup> (continued)</b>												
7890	1356	9-1	6-3297	5-1587				9655	1618	7-9	2-9819	5-3292
8011	1358	9-1	7-3940	13-6669				9803	1620	8-8	3-5324	13-5231
7954	1359	8-7	7-6154	9-8177				9877	1621	9-0	4-0797	17-7275
7875	1360	8-6	7-6654	3-2481				9971	1622	8-1	4-6492	5-7558
7935	1363	8-9	8-8051	8-7264				9914	1623	3-4	5-3153	19-0825
7956	1372	7-1	11-9168	9-7026				9688	1624	8-3	5-4698	7-6953
7941	1377	8-7	15-8999	8-8018				9930	1625	8-6	5-7256	20-7994
7876	1378	9-0	16-5038	3-4938				9644	1626	8-7	6-4034	4-4768
7854	1380	8-9	17-4666	0-5399				9603	1627	8-4	6-9857	1-2678
7864	1382	8-9	18-0819	1-7962				9973	1637	8-7	11-5115	22-0870
7865	1383	8-7	19-2270	2-3309				9711	1639	8-7	12-5890	8-1903
7925	1384	7-9	19-9217	8-0988				9622	1640	9-1	12-7053	1-6603
7866	1385	8-3	20-0569	1-5729				9901	1641	8-8	12-7833	18-7107
7885	1388	8-8	22-4715	3-6784				9643	1643	9-1	13-6881	3-3961
7907	1390	8-6	23-0341	6-3354				9777	1646	8-9	15-0873	11-7240
7929	1392	8-9	23-0697	8-5052				9935	1649	6-8	17-1619	20-4459
7919	1399	9-1	24-6641	7-4160				9906	1650	8-8	17-5114	18-1981
<b>R.A. 4<sup>h</sup> 32<sup>m</sup></b>												
..	1388	8-8	0-0950	3-7000				9817	1651	9-2	17-9120	13-2624
8202	1390	8-6	0-6923	6-3500				9797	1652	8-6	18-7235	11-7929
8245	1392	8-9	0-7563	8-5192				9854	1656	8-7	20-5621	14-9107
8215	1399	9-1	2-3343	7-4096				9717	1659	9-0	20-8755	8-4611
8190	1402	8-7	3-9432	5-3176				9612	1660	8-9	21-1294	1-1832
8158	1403	9-0	4-4579	2-3045				9870	1661	8-5	21-7664	16-5429
8191	1404	9-0	4-4993	5-0703				9888	1667	9-0	24-7871	17-2158
8231	1407	8-6	4-6864	8-0452				9941	1671	8-4	25-6872	20-5681
8259	1406	9-4	4-6883	10-4617				<b>R.A. 5<sup>h</sup> 12<sup>m</sup></b>				
8270	1412	8-9	7-2893	11-3125				10,338	1667	9-0	2-5875	17-2067
8360	1413	9-0	8-2143	16-7802				10,398	1671	8-4	3-5313	20-5465
8152	1417	7-8	9-4576	0-4085				10,292	1677	8-7	5-3049	14-7382
8153	1419	8-3	10-3014	0-6250				10,443	1678	9-1	6-1758	21-7445
8236	1421	8-4	11-4340	7-5274				10,185	1679	7-2	6-9196	10-2094
8361	1423	9-2	11-5556	16-9803				10,186	1681	8-8	7-1097	10-1471
8221	1427	8-2	12-0200	7-2627				10,423	1683	9-0	7-7725	20-9836
8376	1428	8-1	13-2741	18-5107				10,425	1684	9-1	8-3603	20-6256
8384	1432	8-2	14-1217	18-7961				10,111	1686	8-4	11-1823	4-7077
8385	1433	8-6	14-6047	19-1028				10,299	1687	8-9	11-6399	14-7945
8276	1436	9-0	16-1295	11-1589				10,089	1689	7-7	13-6471	3-5284
8166	1441	8-9	18-2362	1-4933				10,343	1691	7-4	14-7616	17-5699
8242	1442	9-1	18-5766	8-0340				10,132	1692	8-9	14-8850	5-4637
8167	1445	8-9	19-2101	1-6121				10,061	1694	8-8	15-7206	0-3170
8243	1447	9-0	19-7796	8-3673				10,236	1702	7-8	18-7664	12-1778
8369	1450	9-0	20-5241	17-2322				10,602	1703	8-5	19-0284	0-8124
8213	1453	8-6	22-1449	6-2616				10,350	1705	8-5	20-0514	16-8229
8214	1454	7-0	22-2379	6-3564				10,391	1706	8-6	20-3123	19-3914
8199	1459	9-0	23-7848	4-6833				10,282	1708	8-3	20-7306	14-0710
<b>R.A. 4<sup>h</sup> 40<sup>m</sup></b>												
8542	1459	9-0	1-4213	4-6883				10,094	1709	8-9	20-8010	3-8009
8770	1464	8-4	4-0960	19-9570				10,354	1714	8-1	22-3905	17-2560
8584	1468	8-9	5-7845	7-6466				10,434	1715	8-1	22-9087	20-7678
8621	1469	8-8	7-1530	10-4282				10,435	1716	9-5	23-2573	20-8226
8522	1470	7-5	7-9981	2-9608				10,430	1718	9-2	23-6318	21-0183
8664	1474	8-8	8-6696	13-4055				10,118	1722	5-2	24-6806	5-1241
8740	1477	8-4	9-4057	18-0046				10,376	1723	8-7	24-8838	17-6910
8753	1478	8-3	9-6912	19-1290				10,392	1724	8-5	25-1001	19-2514
8506	1480	8-7	11-0346	0-7898				10,084	1726	8-0	25-0973	2-7218
8608	1482	8-7	11-4377	8-5564				<b>R.A. 5<sup>h</sup> 20<sup>m</sup></b>				
8550	1485	8-3	12-2737	4-5175				10,969	1714	8-8	0-1914	17-2787
8637	1486	8-9	12-3387	11-5331				11,082	1715	8-1	0-7557	20-7835
8741	1487	8-8	12-5855	18-4051				11,083	1716	9-1	1-1049	20-8337
8779	1492	9-3	14-1565	20-1784				11,084	1718	9-2	2-3228	5-1177
8577	1495	6-2	15-1448	6-6000				10,632	1722	5-2	2-2972	17-6805
8720	1496	8-9	15-1809	16-4801				10,991	1723	8-7	2-6994	19-2379
8797	1497	9-0	15-7595	21-1614				11,020	1724	8-5	3-6080	2-6991
8613	1498	8-6	18-3579	8-7380				10,593	1726	8-0	4-0737	10-4234
<b>R.A. 4<sup>h</sup> 48<sup>m</sup></b>												
8744	1501	9-2	19-6828	18-6957				10,812	1727	8-6	7-1116	19-3638
8539	1503	8-9	20-1148	4-4586				<b>R.A. 5<sup>h</sup> 4<sup>m</sup></b>				
8644	1504	8-7	20-1536	11-4239				9875	1609	9-1	1-4947	17-3063
8568	1505	7-0	20-4123	5-7113				9786	1610	9-2	1-6854	12-1762
8807	1506	8-4	21-6984	21-8581				9642	1611	8-1	2-0746	4-3395
8512	1509	8-4	22-6954	0-8749				<b>R.A. 5<sup>h</sup> 12<sup>m</sup></b>				
8518	1512	8-5	24-0911	2-1165				10,969	1714	8-8	0-1914	17-2787
<b>R.A. 4<sup>h</sup> 56<sup>m</sup></b>												
9445	1552	9-0	0-8011	16-1863				11,082	1715	8-1	0-7557	20-7835
9310	1557	9-1	3-3725	7-0105				11,083	1716	9-1	1-1049	20-8337
9431	1560	7-8	3-8095	15-3541				11,084	1718	9-2	2-3228	5-1177
9312	1562	9-3	4-5948	6-4499				10,632	1722	5-2	2-2972	17-6805
9515	1563	8-3	4-9955	20-6262				10,991	1723	8-7	2-6994	19-2379
9433	1567	6-9	6-9420	15-0899				11,020	1724	8-5	3-6080	2-6991
9471	1572	9-3	9-4661	16-8460				10,593	1726	8-0	4-0737	10-4234
9391	1575	9-0	11-1977	13-1643				10,812	1727	8-6	7-1116	19-3638
9509	1577	7-5	11-3027	19-5726				<b>R.A. 5<sup>h</sup> 20<sup>m</sup></b>				
9326	1578	9-1	11-5908	7-5346				10,969	1714	8-8	0-1914	17-2787
9252	1581	8-8	12-9514	1-3403				11,082	1715	8-1	0-7557	20-7835
9484	1583	9-1	13-6083	17-8884				11,083	1716	9-1	1-1049	20-8337
9528	1585	9-0	14-9480	21-9561				11,084	1718	9-2	2-3228	5-1177
9275	1588	9-0	15-5001	2-6090				10,632	1722	5-2	2-2972	17-6805
9497	1593	9-1	16-3453	19-3474				10,991	1723	8-7	2-6994	19-2379
9374	1594	8-3	16-4453	10-7598				11,020	1724	8-5	3-6080	2-6991
9439	1595	8-6	17-1669	15-0461				10,593	1726	8-0	4-0737	10-4234
9457	1597	8-8	18-2285	15-7149				10,812	1727	8-6	7-1116	19-3638
9308	1599	8-1	19-1768	5-7196				<b>R.A. 5<sup>h</sup> 4<sup>m</sup></b>				
9330	1600	8-8	19-8044	7-7470				9875	1609	9-1	1-4947	17-3063
9290	1601	8-2	19-8562	3-8830				9786	1610	9-2	1-6854	12-1762
9461	1603	9-2	20-9803	15-6503				9642	1611	8-1	2-0746	4-3395
9500	1606	9-4	21-6357	18-7588				<b>R.A. 5<sup>h</sup> 12<sup>m</sup></b>				
9478	1609	9-1	23-6931	17-3009				10,969	1714	8-8	0-1914	17-2787
9386	1610	9-2	23-9509	12-1738				11,082	1715	8-1	0-7557	20-7835

Reference No.				Reference No.				Reference No.								
Hyd.		Algiers.		Hyd.		Algiers.		Hyd.		Algiers.						
		Mag.				Mag.				Mag.						
		Standard co-ordinates, 1900-0.				Standard co-ordinates, 1900-0.				Standard co-ordinates, 1900-0.						
		ξ'. η'.				ξ'. η'.				ξ'. η'.						
R.A. 5 <sup>h</sup> 20 <sup>m</sup> (continued)																
10,836	1735	8-8	8-7382	11-7220	11,814	1876	8-9	19-2994	6-1026	13,255	1997	8-6	12-9403	16-3890		
10,639	1736	8-5	10-4630	4-6585	11,740	1882	8-8	20-3626	1-9875	13,031	1999	8-4	13-0065	7-0917		
10,980	1737	9-0	10-5769	17-2820	12,104	1883	9-0	20-4229	18-3943	13,009	2000	9-2	13-0149	6-4997		
10,598	1738	8-9	11-1397	3-1507	11,840	1890	6-9	22-8398	6-7027	13,393	2003	8-8	13-5062	20-9674		
11,003	1739	7-0	11-3825	17-8035	11,797	1891	7-3	23-0606	4-9208	13,117	2007	8-9	14-7749	10-5382		
10,619	1744	8-8	13-0005	3-5650	11,718	1892	9-1	23-3128	1-1580	12,927	2009	8-5	16-0841	1-8600		
11,036	1748	8-6	14-4735	18-6116	12,155	1896	8-9	23-8820	19-8118	13,398	2013	9-1	17-3074	21-4820		
11,073	1753	8-9	16-1658	20-2214	12,108	1899	6-8	24-8532	18-4955	13,033	2014	8-7	17-9640	6-9164		
10,646	1754	8-9	16-9306	5-2597	12,133	1900	3-8	24-9051	18-8146	13,060	2019	7-6	19-5155	7-6575		
10,647	1755	8-8	17-2951	5-3033	11,866	1905	8-9	25-7493	7-6663	13,375	2021	8-8	20-7603	20-0139		
11,074	1760	8-8	19-4473	20-1819	11,886	1906	7-0	25-8300	9-4607	13,313	2024	9-0	21-2413	18-7258		
11,075	1761	8-6	19-6460	19-9241	12,134	1907	8-6	25-8537	19-6246	13,232	2025	8-8	21-3461	14-9829		
11,100	1762	8-7	19-0916	21-0888	R.A. 5 <sup>h</sup> 44 <sup>m</sup>							13,378	2027	9-1	21-5667	20-7176
10,798	1763	8-8	20-1093	10-0280	12,397	1890	6-9	0-5027	6-7196	13,018	2031	8-3	23-4957	6-0624		
10,570	1767	8-4	22-3291	1-0043	12,395	1891	7-3	0-7003	4-9349	12,914	2032	9-0	23-5412	1-0660		
10,710	1768	6-1	22-3524	6-5453	12,312	1892	9-1	0-9035	1-1692	13,208	2033	8-4	23-6513	14-1582		
11,046	1769	9-0	22-6082	18-8509	12,729	1896	8-9	1-7163	19-8145	12,954	2036	8-5	25-7886	2-8634		
10,627	1777	8-6	24-4243	3-6541	12,702	1899	6-8	2-6702	18-4853	13,162	2038	8-5	25-8336	12-3776		
11,049	1778	6-8	24-5238	19-2743	12,703	1900	3-8	2-7262	18-8037	12,916	2037	8-2	25-8861	1-1317		
10,804	1779	9-0	24-8831	10-3314	R.A. 6 <sup>h</sup> 0 <sup>m</sup>							13,551	2032	9-0	1-1307	1-0743
R.A. 5 <sup>h</sup> 28 <sup>m</sup>				12,478	1906	7-0	3-5347	9-4380	13,671	2031	8-3	1-1504	6-0710	1-0743		
11,570	1769	6-1	0-0132	6-5685	12,731	1907	8-6	3-6854	19-6009	13,885	2033	8-4	1-4118	14-1643		
11,305	1777	8-6	2-0475	3-6512	12,479	1909	9-1	3-7320	9-8949	13,596	2036	8-5	3-4012	2-6433		
11,571	1778	6-8	2-3511	19-2685	12,604	1910	9-0	4-9660	16-6725	13,553	2037	8-2	3-4760	1-1107		
11,400	1779	9-0	2-5036	10-3217	12,634	1913	9-2	5-6494	15-4620	13,833	2038	8-5	3-5705	12-3553		
11,473	1782	8-8	4-8749	1-7341	12,529	1917	8-8	7-7081	10-4621	14,027	2041	9-0	5-4453	19-1829		
11,290	1783	7-9	5-2819	2-4500	12,504	1918	8-8	8-7588	1-7118	13,923	2044	8-9	5-9178	14-7696		
11,519	1784	8-9	6-6492	16-2847	12,533	1922	8-9	8-7525	11-3726	13,810	2045	8-7	6-8019	10-6552		
11,351	1790	7-7	8-9692	6-8103	12,779	1923	8-9	8-8226	22-2421	13,963	2050	8-9	7-7178	16-6983		
11,388	1791	8-6	9-3319	8-8459	12,435	1926	8-5	10-1148	7-9584	13,991	2052	9-1	8-1578	18-0723		
11,368	1792	8-7	9-2899	3-4273	12,338	1929	8-9	11-6760	2-7882	13,811	2056	8-6	9-1366	10-6704		
11,332	1793	6-4	9-7608	0-2542	12,488	1930	9-1	12-0648	9-4530	14,117	2057	8-7	10-2838	21-8746		
11,273	1794	8-5	9-8665	6-1125	12,780	1931	8-7	12-2916	21-8634	13,790	2059	7-4	10-7277	10-4175		
11,539	1800	8-5	12-6072	16-5837	12,538	1936	8-9	13-2279	11-2063	13,705	2060	8-7	10-7997	0-9397		
11,335	1802	8-6	13-4922	5-6421	12,592	1937	8-1	13-3738	14-0433	14,152	2061	8-5	11-0752	22-7574		
11,424	1806	8-9	14-8866	10-8750	12,737	1938	8-9	13-6553	19-3408	13,813	2070	9-0	14-1551	11-8544		
11,310	1807	8-9	14-9003	4-2441	12,593	1941	8-7	15-2762	14-0655	13,708	2073	8-6	14-8668	9-1827		
11,277	1808	8-6	14-9362	2-0608	12,674	1944	9-0	15-4882	16-7065	13,562	2074	8-9	14-9724	0-4528		
11,312	1810	8-3	17-5745	3-8872	12,491	1946	9-0	16-7109	9-4620	14,075	2081	9-0	18-0457	20-7074		
11,375	1821	8-9	18-2358	8-2036	12,464	1949	9-1	17-5875	8-9318	13,997	2082	8-4	19-5505	14-6247		
11,623	1823	9-1	20-0737	21-2485	12,414	1951	9-2	17-9463	6-2326	13,976	2083	8-9	19-9690	17-7213		
11,640	1825	9-1	20-4555	22-1160	12,741	1955	8-7	19-3504	20-1760	13,908	2087	8-6	20-5994	13-9964		
11,302	1824	7-5	20-5371	2-6190	12,548	1956	9-1	19-6541	11-6092	13,800	2086	6-1	20-5977	10-6235		
11,345	1830	9-3	24-6475	6-2210	12,470	1965	8-6	22-4032	8-8083	13,952	2088	9-0	21-3403	16-0694		
11,397	1831	9-1	25-1374	8-8863	12,601	1967	8-6	22-5515	13-6712	13,724	2089	8-6	21-3954	7-2245		
R.A. 5 <sup>h</sup> 36 <sup>m</sup>				12,551	1970	8-6	24-2223	11-6574	14-053	13,613	2091	7-9	21-5714	19-7000		
11,823	1830	9-3	2-3042	6-2149	12,452	1971	9-1	24-6193	7-5605	14,011	2094	9-1	21-7641	3-2633		
11,870	1831	9-1	2-8287	8-8735	12,500	1973	8-5	25-0682	9-2738	14,011	2094	9-1	23-3773	18-5643		
R.A. 5 <sup>h</sup> 36 <sup>m</sup>				12,500	1973	8-5	25-0682	9-2738	14,011	2094	9-1	23-3773	18-5643			
R.A. 5 <sup>h</sup> 52 <sup>m</sup>				13,066	1965	8-6	0-0936	8-8308	R.A. 6 <sup>h</sup> 8 <sup>m</sup>							
11,872	1837	8-9	6-1456	9-1847	13,163	1967	8-6	0-3057	13-6918	14,738	2094	9-1	1-1953	18-5739		
11,805	1839	8-9	7-2955	5-3640	13,124	1970	8-6	1-9502	11-6563	14,562	2098	9-0	2-3676	12-2891		
11,780	1842	8-8	7-7710	4-6678	13,023	1971	9-1	2-2934	7-5549	14,744	2099	6-0	4-0156	17-9383		
11,874	1851	8-9	11-3526	9-0415	13,069	1973	8-5	2-7647	9-2620	14,692	2109	9-0	5-8123	10-5311		
11,785	1854	8-7	11-8865	5-1257	13,322	1976	8-9	4-6512	18-9383	14,597	2110	8-9	5-9931	12-9750		
11,729	1855	8-7	11-8989	2-0771	13,126	1977	8-8	4-7326	11-0409	14,631	2111	7-9	6-0916	14-2289		
11,730	1860	9-0	13-4649	1-3741	13,269	1978	8-5	5-0970	17-7341	14,855	2113	6-9	6-3625	22-1005		
12,174	1861	8-2	13-6385	21-4091	12,977	1983	9-8	6-8226	0-1836	14,716	2115	8-9	8-4145	17-0983		
12,049	1862	8-0	13-8666	15-5029	12,977	1986	8-2	8-7647	4-5871	14,543	2116	8-2	8-4437	10-8801		
11,789	1864	8-6	14-1471	4-3854	13,391	1989	9-0	11-0409	20-9758	14,639	2121	9-0	9-0845	13-7855		
11,852	1868	8-3	15-0912	8-1460	13,977	1992	6-4	12-0078	9-4183	14,752	2123	9-1	10-0015	17-7050		
11,853	1870	8-8	16-2293	7-9621	13,006	1994	8-9	12-2346	5-7702	14,861	2125	8-4	10-3200	22-6762		
12,100	1872	6-8	18-6179	18-0747	13,421	1995	9-1	12-2659	22-2502	14,405	2126	8-7	11-2017	6-3812		
12,125	1873	9-0	18-9361	19-4719	12,948	1996	7-4	12-7603	2-6557	14,348	2127	8-9	11-3008	3-5951		
11,858	1874	9-1	19-2838	8-0826								14,348	2127	8-9	11-3008	3-5951

Reference No.				Reference No.				Reference No.						
Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.				
Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.			
R.A. 6 <sup>h</sup> 8 <sup>m</sup> (continued)				R.A. 6 <sup>h</sup> 24 <sup>m</sup> (continued)				R.A. 6 <sup>h</sup> 40 <sup>m</sup> (continued)						
14,863	2130	8.7	11-8811	22-3564	15,905	2283	9.1	14-8291	5-9030	18,302	2415	9.2	7-5775	17-8711
14,603	2131	8.8	12-5828	12-9861	16,241	2285	9.2	15-2193	16-0707	18,208	2416	8.7	7-9103	16-1700
14,437	2132	8.9	13-8179	6-6782	16,344	2286	7.7	16-3865	19-3048	17,688	2418	9.0	8-0672	2-2122
14,722	2134	8.6	13-9340	17-2516	15,988	2287	9.1	16-9080	8-0284	18,258	2421	6.9	8-9907	17-2438
14,789	2135	8.6	13-9436	19-4290	15,908	2291	8.8	17-7760	6-3746	17,030	2428	7.2	10-1980	10-1620
14,521	2136	9.0	14-3038	9-6985	15,773	2293	9.4	17-8878	0-9566	17,889	2429	8.0	10-4167	8-5982
14,354	2139	8.4	16-3920	3-8769	15,800	2294	9.4	17-9915	1-5422	18,350	2433	8.3	13-0194	18-6617
..	2140	9.1	16-5709	0-1953	16,254	2298	7.8	19-7376	16-0438	18,267	2434	8.5	13-1036	17-3593
14,267	2145	9.1	17-9565	0-6158	16,103	2304	8.5	22-0320	12-6240	18,269	2435	8.5	13-3798	16-9357
14,682	2148	8.2	19-5841	15-2886	15,882	2302	7.5	22-0378	5-0442	17,693	2437	9.0	13-5865	3-2354
14,300	2152	8.2	21-2595	2-2895	15,775	2306	8.4	22-4236	0-9451	17,696	2438	8.7	13-8799	3-0765
14,358	2154	8.8	21-6719	3-9576	15,778	2309	8.5	23-3707	0-9298	18,282	2468	8.9	18-8905	17-2817
14,689	2159	8.8	22-6578	14-9417	15,855	2313	8.8	24-6254	4-1339	18,149	2476	9.5	20-1607	14-2762
14,848	2161	8.7	23-4446	21-5905	..	2315	7.8	24-9566	0-4191	18,404	2482	8.6	20-8578	19-8854
14,334	2160	9.1	23-4725	2-5398	R.A. 6 <sup>h</sup> 32 <sup>m</sup>				17,633	2481	8.6	20-8859	0-9368	
R.A. 6 <sup>h</sup> 16 <sup>m</sup>				..	2306	8.4	0-0113	0-9674	18,285	2484	9.2	21-5812	17-3760	
15,353	2159	8.8	0-4285	14-9608	16,551	2309	8.5	0-9583	0-9402	18,150	2486	8.8	22-8848	13-7435
15,052	2160	9.1	1-0812	2-5489	16,672	2313	8.8	2-2547	4-1284	17,995	2490	7.7	24-2193	10-5839
15,562	2161	8.7	1-3024	21-5989	16,555	2315	7.8	2-5373	0-4098	18,538	2492	9.2	24-9275	22-7202
15,055	2168	8.9	3-9931	2-6518	17,201	2318	8.7	4-5894	19-4296	18,494	2493	8.9	25-1741	22-3952
15,479	2169	9.0	4-1936	17-8310	..	2323	9.1	5-4982	0-0367	R.A. 6 <sup>h</sup> 48 <sup>m</sup>				
15,566	2170	6.6	4-2847	21-0811	17,106	2324	8.9	6-5732	15-2776	19,276	2486	8.8	0-6400	13-7597
15,446	2171	7.2	4-4634	17-0688	16,782	2325	8.1	7-0331	6-5175	19,097	2490	7.7	1-9331	10-5829
15,207	2172	8.6	4-8323	9-4900	16,681	2334	8.9	8-8975	4-2618	19,751	2492	9.2	2-7999	22-7085
15,233	2175	8.7	5-8436	9-6479	16,607	2335	9.2	8-9322	1-6173	19,711	2493	8.9	3-0422	22-3803
15,288	2179	8.8	8-8948	12-1753	16,984	2336	8.7	9-5539	11-9958	19,608	2495	8.8	4-3058	20-1566
15,360	2180	9.0	8-9858	15-3570	16,714	2338	8.8	9-8108	4-9020	18,691	2499	8.7	5-4621	18-2606
15,309	2182	8.3	9-5029	12-9376	17,346	2339	9.1	9-9652	21-7291	18,657	2504	8.9	6-2759	0-7366
15,413	2185	8.9	10-8929	16-6563	17,317	2340	9.0	10-0098	20-0554	19,455	2505	8.9	6-5513	17-3065
15,339	2186	6.6	11-3884	13-7311	17,025	2343	6.9	11-0092	13-3342	19,760	2511	9.0	7-7073	22-6246
15,545	2190	8.8	11-8066	20-5874	17,234	2345	8.8	11-6013	18-5413	19,764	2516	9.0	8-8554	23-5280
15,311	2194	9.2	13-1098	13-5523	16,688	2351	8.8	13-0653	3-4577	19,771	2521	9.1	9-8611	23-2983
15,377	2201	9.1	14-5464	15-1870	17,238	2352	8.8	13-3734	18-4580	19,124	2523	8.8	10-9705	10-9319
15,086	2203	8.4	15-5537	4-1945	16,689	2355	9.1	14-2411	9-3114	19,361	2526	8.4	12-1306	15-1999
15,417	2204	8.8	15-5787	16-5557	17,275	2356	7.0	14-3301	19-3752	19,302	2527	9.2	12-4371	14-1261
15,162	2206	8.6	16-4230	6-5850	16,719	2358	9.1	14-7725	4-7572	19,628	2528	9.0	12-7290	19-9383
15,378	2211	8.5	16-7035	14-9270	17,115	2359	7.8	14-9534	15-1868	19,306	2529	8.6	13-3985	13-9567
15,382	2219	8.5	18-7494	15-4075	16,956	2366	8.6	16-4913	11-4476	18,706	2532	7.5	14-1130	1-7521
15,528	2220	8.6	19-2630	19-5998	16,883	2369	8.9	17-4413	9-2594	19,074	2533	8.7	15-0081	9-5549
15,387	2222	8.9	19-6494	15-7188	16,693	2370	9.2	17-7627	4-4367	19,786	2542	8.8	16-3517	23-1541
15,390	2226	8.8	21-4683	15-3786	17,367	2371	8.5	18-7271	21-1649	19,186	2545	8.9	16-4308	12-2078
15,070	2228	8.5	21-9487	3-1766	16,855	2373	9.2	19-1028	8-3517	19,080	2546	8.4	17-4038	10-0897
15,209	2237	9.1	24-6789	12-0812	16,927	2376	9.2	19-4183	10-0043	19,377	2548	8.1	17-7233	15-4533
R.A. 6 <sup>h</sup> 24 <sup>m</sup>				16,661	2377	9.2	20-2248	3-4801	19,588	2550	8.5	17-9704	18-6664	
16,071	2237	9.1	2-4122	12-0741	16,891	2379	8.7	22-0270	9-3659	18,892	2551	9.0	18-2415	5-4348
16,075	2240	8.4	4-1412	11-8682	16,702	2382	8.9	22-5321	8-8394	19,492	2553	8.1	18-8059	16-7380
16,272	2242	8.8	4-3312	16-9762	17,416	2386	8.3	23-1923	22-7931	19,083	2555	8.9	19-9675	9-9428
16,329	2243	8.6	4-6165	19-2109	16,808	2385	9.0	23-2670	7-0990	19,094	2556	9.1	20-0864	20-7342
15,864	2245	9.2	5-5684	4-3904	16,734	2389	7.4	24-6175	4-6053	19,796	2560	8.5	20-6827	22-7544
15,895	2248	8.9	6-1795	5-9256	16,592	2388	8.8	24-6338	0-6217	19,085	2561	8.9	21-1974	9-9528
15,918	2250	8.7	6-7475	6-8309	R.A. 6 <sup>h</sup> 40 <sup>m</sup>				19,200	2563	7.5	22-1869	11-9324	
16,464	2254	8.9	8-4320	23-1157	17,714	2382	8.9	0-1578	3-8603	19,328	2564	8.5	22-4902	13-7826
16,366	2256	9.1	8-6213	20-2175	17,809	2385	9.0	0-9352	7-1104	19,798	2567	6.0	22-8876	22-7777
16,044	2258	9.0	9-0400	11-3393	18,497	2386	8.3	1-0658	22-8048	19,800	2569	8.5	23-3731	23-6140
15,920	2261	8.5	9-9008	6-9077	17,606	2388	8.8	2-2172	0-6163	18,905	2570	9.2	23-6245	5-5462
16,442	2264	8.4	10-3380	22-6815	17,749	2389	7.4	2-2530	4-5997	18,806	2573	8.8	24-8292	3-0986
15,921	2265	9.1	10-3462	6-6311	17,645	2391	9.2	3-9508	1-5512	19,553	2574	9.8	25-0259	17-7243
15,899	2266	9.2	10-6437	5-9846	17,719	2393	9.3	4-0652	3-9019	19,601	2575	8.4	25-0441	19-2124
16,156	2268	8.5	10-9124	13-7600	17,681	2395	9.0	4-8463	2-2667	19,602	2576	8.9	25-1013	19-1571
16,020	2273	8.6	12-4640	9-8228	17,880	2397	8.7	4-9848	14-4403	18,684	2580	8.5	25-9786	0-6850
15,792	2274	10.0	12-6324	2-3857	17,800	2399	8.8	5-2116	8-8065	R.A. 6 <sup>h</sup> 56 <sup>m</sup>				
15,812	2275	9.3	12-7398	2-9077	18,061	2400	7.5	5-3092	13-1241	..	2564	8.5	0-2457	13-8039
16,087	2277	8.1	12-9550	12-2990	18,300	2407	8.9	6-8190	17-6792	20,499	2567	6.0	0-7610	22-7935
15,794	2279	9.3	13-1805	2-2767	17,650	2409	9.1	7-1900	1-2082	20,521	2569	8.5	1-2574	23-6233
					18,251	2410	8.5	7-2701	17-1715	20,089	2570	9.2	1-2725	5-5531

Reference No.				Reference No.				Reference No.						
Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.				
Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.			
<b>R.A. 6<sup>h</sup> 56<sup>m</sup> (continued)</b>				<b>R.A. 7<sup>h</sup> 4<sup>m</sup> (continued)</b>				<b>R.A. 7<sup>h</sup> 12<sup>m</sup> (continued)</b>						
20,038	2573	9-8	2-4528	3-6904	21,071	2703	8-2	8-3186	11-3298	22,114	2839	8-8	10-3328	10-5774
20,367	2574	8-8	2-8330	17-7119	21,170	2704	9-1	8-4311	12-7038	22,304	2840	8-8	10-8253	20-9991
20,400	2575	8-4	2-8705	19-1907	20,766	2705	9-0	8-4539	4-2568	22,036	2845	8-7	11-7947	6-4227
20,401	2576	8-9	2-9260	19-1436	21,072	2706	8-9	8-5103	10-6579	21,946	2847	8-3	12-0460	2-3176
19,952	2580	8-5	3-5626	0-6628	20,810	2708	9-0	8-7136	4-6942	22,188	2848	9-2	12-7110	14-6120
20,202	2583	9-5	4-3582	11-0728	20,860	2709	8-8	8-8279	5-8347	21,914	2850	9-0	12-7834	21-0757
20,276	2584	7-2	4-6712	13-8668	20,935	2711	9-2	9-2317	8-3097	21,987	2851	8-6	12-9473	3-9270
20,204	2588	9-3	6-3120	10-6493	20,937	2713	9-1	9-8082	7-5610	22,305	2852	8-8	13-1846	21-0757
20,096	2589	8-9	6-8210	5-7686	21,176	2715	8-7	10-1137	13-5994	21,914	2853	8-9	13-1999	1-0160
20,481	2592	8-8	6-0780	21-9084	20,940	2716	9-2	10-5082	8-2518	22,176	2855	8-8	13-6791	14-0448
20,188	2593	8-3	7-0989	9-8291	21,645	2717	9-3	10-9575	21-0802	21,923	2857	8-6	14-2235	20-6067
20,236	2597	9-0	7-0717	11-8524	21,337	2718	8-6	11-1924	16-0867	21,021	2861	7-2	15-1586	1-0933
20,506	2598	9-0	7-0926	22-8604	21,231	2719	8-7	12-1949	13-8819	22,355	2865	8-9	16-0017	23-7395
20,376	2599	9-0	8-6281	17-8067	20,739	2721	8-6	12-5426	3-2368	21,989	2869	8-1	16-0739	1-2326
20,378	2603	8-7	8-8579	17-7995	20,710	2722	9-1	12-7621	2-2313	22,261	2870	8-8	16-4696	4-0867
19,984	2606	8-6	10-0775	1-3097	21,653	2727	8-8	13-3124	20-8033	22,308	2871	9-0	16-5880	20-8009
20,054	2607	9-0	10-1043	3-9946	21,345	2728	8-9	13-3350	15-9927	22,038	2874	8-7	16-5314	7-1269
20,120	2608	8-8	10-1200	6-3193	21,088	2729	8-6	13-3704	11-0713	21,973	2875	8-2	17-0666	3-1543
19,959	2609	9-3	10-3209	1-1323	21,529	2738	9-1	14-7590	19-4992	22,178	2877	8-6	18-0136	13-7071
20,458	2611	8-9	10-5907	21-1487	20,907	2739	9-1	15-7009	7-4331	22,194	2879	7-3	18-4027	14-9000
20,122	2614	6-9	11-2806	6-5750	21,597	2741	8-7	16-0069	20-3065	22,065	2881	9-0	18-6195	0-9418
20,310	2615	9-2	11-8951	14-2731	21,413	2742	8-9	16-0854	16-9888	21,927	2882	8-9	19-6953	20-5319
20,432	2618	8-5	12-5161	19-9541	20,829	2744	8-9	16-6255	4-7380	22,310	2888	8-1	20-8946	5-7331
20,534	2620	8-1	12-5384	2-3426	21,537	2745	8-7	16-0715	19-0548	22,024	2893	8-9	20-9982	4-3054
20,282	2621	8-9	12-5497	14-1764	21,241	2747	9-0	17-0856	14-3159	21,991	2895	8-3	21-5271	11-4012
20,263	2624	6-8	13-2096	12-7483	21,741	2748	8-7	17-1622	23-1620	22,118	2896	8-9	21-9865	10-8695
20,411	2625	8-1	13-6753	19-0601	21,144	2749	9-5	17-2632	12-6263	21,992	2900	9-1	22-7399	3-8858
20,355	2630	8-8	14-1359	16-3601	21,145	2760	9-7	18-9132	11-9410	22,076	2904	9-2	23-6681	9-3972
20,331	2631	8-6	14-6685	15-8865	21,430	2764	8-9	20-2680	17-4338	22,332	2905	9-1	23-8821	21-4990
20,387	2632	9-0	15-2669	17-5972	20,786	2769	8-9	20-7805	3-9205	22,139	2906	8-5	24-4345	11-8160
20,214	2633	8-2	15-3837	10-8952	21,709	2770	9-0	21-2342	22-8724	21,955	2908	9-2	24-9866	1-5443
20,538	2635	8-6	15-3682	2-5055	20,999	2772	8-5	21-5783	8-6749	22,203	2911	9-1	25-1098	19-7743
20,025	2637	8-8	15-7062	2-0903	20,943	2777	8-9	22-0127	18-2827	22,028	2913	8-7	25-8023	5-0956
20,388	2638	9-1	16-0101	18-2297	20,914	2778	9-1	22-1022	7-3959	22,313	2914	7-4	25-8567	20-0998
20,416	2642	8-9	16-6132	19-2297	21,721	2780	8-6	23-9591	22-8210	<b>R.A. 7<sup>h</sup> 20<sup>m</sup></b>				
20,066	2645	8-5	17-7687	3-5994	20,721	2788	8-8	23-9698	2-3521	22,585	2900	9-1	0-3659	3-9041
20,156	2646	8-6	18-9768	8-0855	21,202	2790	8-8	24-1764	13-0184	22,868	2904	9-2	1-3663	9-4935
19,969	2648	8-9	19-5147	0-4938	21,793	2793	8-5	24-5507	22-9801	23,343	2905	9-1	1-7387	21-5015
20,245	2650	9-0	19-7242	11-5789	20,965	2795	8-6	25-0031	8-0024	22,964	2906	8-5	2-1642	11-8120
20,081	2651	8-8	19-7810	5-0891	21,715	2797	8-6	25-2071	21-9493	22,506	2908	9-2	2-5820	1-5344
20,467	2658	8-3	21-0190	21-0616	<b>R.A. 7<sup>h</sup> 12<sup>m</sup></b>				23,280	2911	9-1	3-0337	19-7593	
20,082	2657	8-3	21-0791	4-5402	21,959	2788	8-8	1-5758	2-3550	22,682	2913	8-7	3-4520	5-6750
20,396	2659	9-1	21-2889	18-0536	22,334	2780	8-6	1-8331	22-8225	23,317	2914	7-4	3-7064	20-9770
20,420	2660	9-1	21-3051	18-9045	22,143	2790	8-8	1-9220	13-0176	23,393	2930	9-2	8-1277	23-0180
20,397	2663	8-5	21-7921	18-1023	22,335	2793	8-5	2-4265	22-9735	23,394	2931	9-3	8-2167	22-8563
20,198	2665	8-4	22-3686	10-2732	22,045	2795	8-6	2-6831	7-9916	22,468	2932	9-0	8-2577	1-0216
20,128	2667	9-0	22-8295	6-9437	22,315	2797	8-6	3-1591	21-9320	22,646	2934	8-1	8-8657	4-5316
20,316	2670	8-7	23-1195	15-0019	22,297	2798	9-0	3-6318	21-2818	22,647	2935	9-0	9-1237	5-1460
20,180	2669	8-8	23-4480	8-5252	22,047	2802	8-7	4-9010	7-5038	23,093	2938	8-9	10-0535	14-4636
20,033	2673	7-9	24-0172	2-4368	22,103	2806	8-5	5-0773	0-4865	22,556	2939	9-0	10-2871	3-3730
20,085	2674	8-3	24-0209	4-4975	22,247	2805	6-8	5-1198	19-0520	22,650	2942	8-5	10-5992	4-7867
20,445	2675	9-0	24-2670	20-2637	21,963	2808	9-3	5-3325	3-2166	23,174	2945	8-9	11-0870	16-8901
20,251	2678	6-3	25-5980	11-6093	21,998	2809	8-7	5-7793	4-4405	22,606	2946	9-1	11-1693	3-4633
<b>R.A. 7<sup>h</sup> 4<sup>m</sup></b>				21,904	2813	8-9	6-2247	0-6865	23,360	2947	8-7	11-2052	21-5010	
21,009	2665	8-4	0-0782	10-2962	22,130	2812	6-8	6-2941	21-8304	23,399	2948	9-0	11-3745	22-9118
20,882	2667	9-0	0-4962	6-9612	22,550	2822	8-8	7-1185	0-2339	23,242	2949	8-9	11-5572	21-0673
20,967	2669	8-8	1-1347	8-5343	22,132	2824	8-8	7-3637	19-0703	22,696	2952	8-5	12-5861	5-8861
21,263	2670	8-7	1-1910	15-0109	22,112	2825	8-8	7-7462	0-2177	23,098	2954	8-4	12-8309	15-0060
20,727	2673	7-9	1-6245	2-4390	22,130	2827	8-8	7-8194	10-5845	22,654	2955	9-3	13-0214	4-5760
20,793	2674	8-3	1-6633	4-4994	22,132	2828	8-3	8-1798	11-8001	23,363	2956	7-2	13-1194	21-6097
21,561	2675	9-0	2-1069	20-2612	22,228	2829	8-9	8-4662	17-5369	22,481	2965	8-9	14-8264	0-2113
21,114	2678	6-3	3-3248	11-5902	22,087	2835	8-4	9-4757	9-5909	22,483	2967	7-1	15-0011	0-5469
20,887	2683	8-8	4-0191	6-5577	22,273	2836	7-6	9-7678	20-2375	22,943	2969	6-2	15-2811	0-7174
20,800	2687	7-5	4-1054	4-6237	22,342	2837	8-8	10-0758	22-7383	22,904	2971	9-0	15-9172	10-4228
21,062	2697	9-2	6-1115	10-5580									16-3921	9-4874
20,856	2699	9-3	6-9417	5-7202										



Reference No.				Reference No.				Reference No.								
Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.						
Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.	Hyd.	Algiers.	ξ'.	η'.					
<b>R.A. 7<sup>h</sup> 20<sup>m</sup> (continued)</b>																
23,330	2973	9-0	17-2073	20-9400	..	3086	8-7	0-0479	4-1888	24,829	3245	8-7	16-3284	1-4056		
23,017	2978	8-8	18-2218	13-2303	..	3087	8-7	0-1790	20-4675	24,907	3251	9-5	16-9796	1-6041		
22,909	2980	9-1	18-6553	10-2670	24,563	3092	8-5	1-1965	13-9028	26,045	3255	9-1	18-2147	23-9527		
22,950	2983	9-0	19-3717	10-5645	24,301	3093	9-1	1-3065	1-1849	24,985	3256	9-4	18-9895	3-1764		
23,438	2984	8-3	19-6497	23-5879	24,542	3094	7-1	1-3977	12-2971	26,035	3258	9-1	19-3607	16-1983		
23,021	2985	8-9	19-8202	13-2327	24,486	3095	8-6	1-5744	9-3815	25,598	3261	8-0	19-7127	10-6331		
23,441	2988	6-9	20-6074	23-6320	24,346	3103	7-6	3-7159	3-0749	26,048	3262	9-1	19-7593	24-0473		
22,852	2987	8-9	20-6244	8-4565	24,403	3108	9-3	4-4520	5-9905	26,521	3266	8-5	21-1503	23-3544		
..	2995	8-2	22-0901	0-3413	24,628	3111	8-4	6-1155	17-8222	26,043	3268	9-2	21-3565	16-2371		
23,337	2998	7-2	22-5894	20-9020	24,548	3112	9-1	7-6120	13-1388	25,060	3267	9-0	21-3800	4-1726		
22,861	3001	9-0	23-0191	9-1346	24,443	3113	8-7	7-7428	8-1890	26,524	3275	8-7	22-2384	22-6322		
23,110	3003	9-1	23-2509	15-2274	24,457	3114	9-4	8-3836	8-7721	24,839	3276	8-9	22-3953	0-5907		
22,497	3004	8-8	23-5020	1-0143	24,589	3116	8-7	8-4851	15-2803	..	3277	6-3	22-4237	0-0450		
23,308	3005	9-3	23-9844	19-6861	24,350	3120	9-1	9-2210	2-3887	24,842	3280	9-0	22-9547	1-3984		
22,500	3006	9-1	24-7555	0-5168	24,552	3126	8-5	11-6770	12-5668	24,846	3281	9-3	24-4806	0-9008		
22,924	3008	8-8	25-0425	10-1434	24,516	3134	7-8	13-3143	10-7840	25,531	3282	8-8	24-6258	9-9432		
22,813	3009	7-9	25-2419	8-2389	24,316	3137	9-0	13-7609	0-9565	26,224	3286	9-0	24-9467	18-2039		
<b>R.A. 7<sup>h</sup> 28<sup>m</sup></b>																
24,093	2998	7-2	0-4381	20-9219	24,577	3138	8-7	13-8751	14-9685	24,992	3285	8-6	25-0261	2-7774		
23,804	3001	9-0	0-7139	9-1493	24,497	3139	9-0	14-0619	9-5350	25,601	3287	7-0	25-3254	12-6332		
23,960	3003	9-1	1-0254	15-2388	24,593	3141	8-8	14-7093	15-2606	<b>R.A. 7<sup>h</sup> 52<sup>m</sup></b>						
23,551	3004	8-8	1-1808	1-0220	24,320	3145	7-8	15-3312	1-1715	..	3277	6-3	0-0003	0-0673		
24,061	3005	9-3	1-8171	19-6874	24,471	3148	9-4	15-6955	8-5468	..	3275	8-7	0-1097	22-6568		
24,062					24,567	3150	6-9	16-0427	14-2420	26,813	3280	9-0	0-5485	1-4141		
23,553	3006	9-1	2-3377	0-5100	24,321	3152	8-9	16-3522	1-2009	26,804	3281	9-3	2-0677	0-8973		
23,842	3008	8-8	2-7504	10-1318	24,354	3153	8-6	16-9785	2-6201	26,991	3282	8-8	2-3312	9-9370		
23,778	3009	7-9	2-9250	8-2250	24,578	3155	7-5	17-0801	15-0562	26,830	3285	8-6	2-6376	2-7675		
23,637	3013	8-9	3-9060	3-2133	24,555	3159	9-1	17-9848	12-9743	26,170	3286	9-0	2-7600	18-1925		
23,779	3014	8-7	4-2993	8-5408	24,550	3162	8-6	18-3325	12-7854	27,057	3287	7-0	3-0659	12-6182		
24,119	3015	9-3	4-4123	21-2927	24,581	3164	9-1	19-2988	15-0578	26,816	3291	9-2	3-8050	2-2294		
23,780	3017	8-5	4-8717	8-9681	24,534	3167	9-2	19-7378	12-2596	27,335	3294	9-0	4-3165	23-5831		
23,781	3020	8-5	5-1081	8-8397	24,651	3170	8-7	20-1812	19-0636	27,059	3296	8-6	4-5260	12-7301		
23,893	3021	8-0	5-2670	12-9123	24,432	3171	8-8	20-2520	7-2594	27,338	3298	7-4	5-7768	24-1378		
24,147	3024	5-8	6-3878	22-8084	24,502	3172	7-9	20-2899	10-0662	26,962	3299	8-7	5-7769	8-9434		
24,017	3026	9-0	6-5518	17-3055	24,741	3173	9-0	21-2479	23-7106	26,992	3303	8-7	6-5835	10-2267		
23,690	3029	8-6	7-9508	5-2635	24,569	3174	8-0	21-4202	13-7459	26,993	3305	9-0	7-6288	9-9376		
24,124	3030	9-2	8-4974	21-1565	24,536	3176	9-1	21-7274	11-5975	27,245	3308	9-2	9-4078	20-3080		
23,784	3032	8-3	8-6739	8-2067	24,344	3177	8-5	22-1133	1-5406	27,274	3309	8-4	10-1492	21-7288		
23,694	3034	9-2	9-4490	5-9570	24,538	3180	8-4	22-4977	12-1774	27,308	3310	8-9	10-2888	23-1420		
23,811	3035	8-9	9-9082	9-1078	24,454	3185	9-0	24-3415	7-9857	26,995	3312	8-9	10-6660	10-1047		
23,589	3037	9-1	10-2067	1-2865	<b>R.A. 7<sup>h</sup> 44<sup>m</sup></b>					26,973	3314	9-1	11-0616	9-1731		
23,718	3038	8-9	10-3451	6-2164	25,618	3180	8-4	0-2323	12-1987	27,281	3317	8-9	12-3235	21-8898		
23,748	3040	8-7	10-6758	7-3889	25,300	3185	9-0	2-0213	7-9834	27,157	3318	8-4	12-6854	16-4557		
24,189	3041	8-9	10-9243	23-7180	25,005	3191	9-1	3-9932	3-5776	27,283	3321	8-4	13-5769	21-8511		
23,853	3042	8-7	11-4560	10-3400	26,160	3193	8-9	4-2613	17-7802	27,250	3324	4-8	14-5472	20-3580		
24,126	3045	8-4	12-2105	21-4635	25,713	3196	8-5	4-4010	12-7844	27,226	3325	9-0	14-8263	19-6990		
24,106	3051	8-8	13-2386	20-4403	26,072	3197	8-6	4-5988	17-1331	27,251	3326	9-1	15-2335	20-3958		
23,815	3054	8-7	13-8686	9-5932	25,817	3199	8-8	4-9820	13-9393	27,137	3327	8-7	15-4730	15-3588		
24,075	3057	9-2	14-1561	20-0224	25,554	3206	9-1	6-1381	11-2537	27,268	3334	9-0	17-8756	18-7118		
24,128	3060	9-2	14-3143	21-8625	24,810	3207	9-1	6-1641	0-6727	27,286	3338	9-1	18-1546	21-4234		
23,924	3062	8-6	14-8719	13-8583	26,480	3208	8-7	6-3474	22-3733	27,287	3340	8-7	18-4327	21-8770		
24,131	3064	9-5	15-5297	21-4937	26,083	3209	9-0	6-7322	17-5525	26,862	3344	8-5	19-1822	3-6141		
23,817	3066	8-9	15-5691	9-6639	24,814	3211	9-0	6-8111	0-7374	27,258	3345	9-3	20-2056	21-2881		
23,926	3067	8-9	15-7337	13-9449	26,548	3212	7-4	6-9257	23-7751	26,811	3346	9-0	20-3996	0-6836		
23,606	3069	9-1	16-3696	6-0810	25,088	3214	9-2	7-4237	5-2726	27,023	3351	8-2	20-9187	10-8840		
23,929	3070	5-3	17-9253	13-9668	25,090	3215	8-2	7-7253	4-6186	27,234	3354	9-2	21-5698	20-2056		
23,599	3074	8-2	19-2915	2-0678	25,490	3216	9-1	7-8638	10-2379	26,984	3355	8-9	21-8791	9-2105		
24,081	3076	8-2	19-9136	19-7665	25,013	3218	9-0	8-2782	3-6083	26,985	3356	9-1	21-9049	8-8096		
23,905	3079	9-3	20-5142	10-0036	24,872	3221	9-2	9-4532	1-9066	26,986	3358	9-0	22-1134	8-4190		
23,732	3085	8-9	22-0383	6-5233	26,002	3224	6-2	9-9800	16-2820	27,235	3361	9-0	22-7402	20-2867		
24,113	3087	8-7	22-3362	20-4441	25,024	3232	9-3	11-8180	3-7741	27,075	3362	8-4	22-9777	13-1706		
23,678	3086	8-7	22-4181	4-1664	24,878	3233	9-1	11-9388	2-3416	26,827	3363	8-4	23-2736	1-7439		
23,937	3092	8-5	23-4387	13-8938	24,880	3234	9-1	12-0179	2-1413	27,237	3367	8-4	24-9933	20-0532		
23,908	3094	7-1	23-6615	12-2910	25,839	3238	9-0	12-3710	14-1974	<b>R.A. 8<sup>h</sup> 0<sup>m</sup></b>						
23,606	3093	9-1	23-7157	1-1788	25,501	3242	7-7	13-7505	10-1189	28,004	3361	9-0	0-5808	20-3047		
23,831	3095	8-6	23-8764	9-3779	26,122	3244	8-1	15-9509	16-7559	27,848	3362	8-4	0-7253	13-1856		
												27,477	3363	8-4	0-8724	1-7555

Reference No.				Reference No.				Reference No.			
Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.
Algiers.			ξ. η.	Algiers.			ξ. η.	Algiers.			ξ. η.
<b>R.A. 8<sup>h</sup> 0<sup>m</sup> (continued)</b>				<b>R.A. 8<sup>h</sup> 8<sup>m</sup> (continued)</b>				<b>R.A. 8<sup>h</sup> 16<sup>m</sup> (continued)</b>			
27,978	3367	9.0	2.7808 20.0416	28,960	3501	9.6	11.7099 13.0518	30,983	3650	6.0	25.6304 23.0062
27,851	3372	7.3	4.5955 13.7432	28,653	3503	8.6	12.0870 9.3292	29,987	3651	8.9	25.9551 2.8022
27,852	3373	8.1	4.7293 13.7018	28,504	3506	9.0	12.5030 6.7141	30,086	3652	8.9	26.0033 4.7123
27,480	3375	9.0	5.0511 2.0697	28,571	3511	9.0	13.7040 7.6614	<b>R.A. 8<sup>h</sup> 24<sup>m</sup></b>			
27,599	3377	9.2	5.6174 5.3176	..	3514	8.0	15.2016 0.2790	31,247	3643	9.1	0.5270 4.5971
27,819	3386	9.1	7.7531 12.1674	29,048	3516	9.0	15.4132 14.1554	31,101	3645	9.0	0.8808 0.6846
27,820	3387	8.6	8.1673 12.8052	28,337	3517	8.8	15.8495 4.1723	31,707	3646	8.6	1.6650 13.7026
27,513	3390	9.2	8.6232 2.6917	..	3520	9.2	16.3467 0.1818	31,988	3648	9.0	2.0955 19.6736
27,728	3394	8.9	9.7844 9.7939	..	3521	9.1	16.4783 0.2707	32,181	3650	6.0	3.5122 22.9849
27,966	3395	9.3	10.8835 18.4226	28,983	3522	8.4	16.7954 13.4702	31,177	3651	8.9	3.5631 2.7801
27,947	3398	8.6	11.6553 17.9055	29,057	3524	9.3	17.1495 14.1868	31,256	3652	8.9	3.6399 4.6892
27,488	3400	8.2	12.1780 2.1349	28,422	3526	8.5	17.7452 2.0070	31,498	3653	9.2	4.0847 10.3748
27,603	3401	8.3	12.6880 7.4002	28,988	3528	9.0	19.2268 13.2441	31,595	3656	9.1	4.3527 12.1972
27,489	3402	9.2	12.7167 1.6070	28,398	3532	8.0	20.3231 5.1529	31,550	3657	7.5	4.4055 10.8077
27,517	3403	8.4	12.9323 2.5410	28,150	3533	9.2	20.5135 6.2095	31,213	3658	8.8	4.6085 4.0306
27,989	3409	9.3	13.7052 19.4331	28,184	3534	8.8	20.5380 1.4582	31,719	3661	9.0	5.8773 13.7069
27,462	3410	9.2	13.8226 0.8542	28,399	3535	9.3	20.8245 4.6656	31,889	3663	9.0	6.1273 17.0759
27,463	3411	9.3	14.3000 0.7062	28,286	3540	8.9	23.4805 3.3643	31,832	3665	9.3	6.4822 16.1703
27,882	3413	8.2	14.9911 14.8038	28,610	3548	7.3	25.1675 7.9262	..	3666	9.2	6.6845 0.0993
28,099	3415	9.1	15.2487 4.3253	28,190	3550	6.5	25.6098 1.1894	31,183	3667	9.2	6.7701 3.3293
27,952	3417	9.3	15.4576 17.9905	28,912	3551	8.9	25.8522 12.4164	32,145	3668	8.9	7.0613 21.8805
27,615	3420	9.0	15.9962 5.2648	<b>R.A. 8<sup>h</sup> 16<sup>m</sup></b>				31,224	3671	8.6	7.7472 3.8205
27,669	3422	8.6	16.8773 8.0830	29,990	3540	8.9	1.1000 3.3732	32,149	3673	8.9	8.0609 22.0867
27,711	3427	9.1	17.6375 8.3575	30,176	3548	7.3	2.8464 7.9133	31,266	3678	9.4	8.7026 4.5783
28,080	3430	9.0	17.9222 23.6541	30,176	3548	7.3	2.8464 7.9133	32,233	3680	7.5	9.2335 24.0823
27,835	3434	8.3	18.7451 12.2847	30,176	3548	7.3	2.8464 7.9133	31,727	3681	9.0	9.4788 14.4530
27,742	3435	9.1	18.8116 10.0205	30,176	3548	7.3	2.8464 7.9133	31,563	3685	9.1	10.2158 11.0890
27,493	3438	8.9	19.1402 2.0928	30,448	3551	8.9	3.5897 12.3940	31,426	3690	9.2	12.5388 8.8881
28,050	3439	9.1	19.2643 21.7329	30,040	3554	9.1	3.6799 4.7090	31,680	3689	9.0	12.5392 12.9278
27,867	3441	9.3	19.3512 13.9986	30,140	3556	8.5	4.6336 7.2537	32,119	3691	9.0	12.7426 20.8007
27,974	3442	8.8	19.3680 18.9555	30,046	3562	8.8	5.8668 6.8715	32,150	3693	7.3	13.6599 21.8651
27,622	3443	8.5	19.8169 5.2009	30,046	3567	8.2	7.0225 24.0500	31,908	3694	9.2	13.7997 17.0495
27,885	3444	9.1	20.0645 15.1221	30,247	3571	9.4	7.8645 8.5026	31,516	3697	9.2	14.3180 10.0072
27,624	3445	8.8	20.7335 5.7097	30,291	3574	8.6	7.9819 10.1060	31,684	3699	9.1	14.8322 12.9777
27,625	3447	9.3	21.1643 5.2269	30,771	3573	8.5	7.9844 19.1385	31,330	3702	9.1	15.6758 6.4728
27,746	3448	8.6	21.1575 10.1393	30,004	3576	8.5	8.3944 4.1647	..	3705	8.5	16.1371 0.3680
27,747	3449	9.2	21.3323 2.7048	30,356	3578	8.7	8.5500 10.8788	32,130	3707	9.2	16.6482 21.7191
27,530	3450	9.2	21.4427 2.7048	30,405	3579	9.1	8.7780 11.5172	31,975	3711	9.1	18.5244 18.3784
28,026	3451	8.2	21.7884 20.4987	30,406	3581	9.0	9.2217 12.1192	31,743	3713	9.0	18.9300 13.7980
27,558	3455	9.1	22.6000 3.3180	30,207	3584	9.0	9.8095 9.5147	32,175	3725	9.5	21.9641 22.5526
27,779	3457	8.3	23.6482 11.1610	30,814	3586	9.2	10.2586 0.3084	32,213	3726	9.3	22.2795 22.8907
27,560	3460	9.2	24.3573 3.7885	29,913	3587	8.0	10.5125 0.3084	31,239	3730	8.9	23.2246 3.9796
27,532	3462	9.2	24.4457 3.1262	30,463	3588	9.0	10.7819 13.4057	31,138	3737	9.1	24.4284 0.8077
27,889	3464	9.0	24.6119 14.2976	30,410	3589	9.3	10.8323 12.3017	31,984	3740	8.8	25.0349 18.8088
27,628	3469	8.2	25.5220 5.9370	30,824	3595	9.0	13.2105 20.0670	32,215	3742	8.8	25.4844 23.9422
<b>R.A. 8<sup>h</sup> 8<sup>m</sup></b>				30,418	3596	9.3	13.2375 12.1867	32,030	3743	9.1	25.5424 19.6338
28,235	3455	9.1	0.2187 3.3380	30,825	3597	6.8	13.2935 20.3037	31,347	3744	8.8	25.7713 5.9102
28,776	3457	8.3	1.3696 11.1675	30,111	3598	8.6	13.3840 6.0887	<b>R.A. 8<sup>h</sup> 32<sup>m</sup></b>			
28,298	3460	9.2	1.9821 3.7863	30,197	3600	9.4	14.0885 7.9993	33,183	3726	9.3	0.1542 22.9148
28,238	3462	9.2	2.0618 3.1230	30,571	3603	8.7	14.5001 14.5997	32,429	3730	8.9	0.8519 3.9917
29,011	3464	9.0	2.3741 14.2910	30,199	3604	9.6	14.7086 8.0302	32,352	3730	9.1	2.0143 0.8050
28,414	3469	8.2	3.1748 5.9198	30,018	3614	9.2	16.7028 4.2072	33,021	3740	8.8	2.8560 18.7882
28,398	3472	8.0	4.3033 4.3924	30,160	3616	9.2	17.4448 6.6437	33,185	3742	8.8	3.6666 23.4728
28,420	3473	9.3	4.9541 5.7498	29,950	3618	8.5	18.0431 1.6391	33,075	3743	9.1	3.3742 19.6142
28,364	3474	9.1	5.1057 4.5979	30,475	3621	9.2	18.3836 12.9242	32,490	3744	8.8	3.4237 5.8898
28,488	3479	9.0	5.7492 6.7907	30,070	3623	9.3	19.0545 4.3934	32,774	3746	8.2	3.9773 12.8702
29,380	3480	9.2	5.8141 19.2433	30,375	3624	8.6	19.2065 10.7672	32,857	3748	8.6	4.2992 14.4541
29,166	3485	7.6	7.2258 15.8592	30,022	3625	8.3	19.2994 3.7119	32,603	3754	8.4	6.0746 9.3162
29,454	3487	8.4	7.5878 19.9382	30,376	3626	9.0	19.3315 10.7386	32,403	3755	9.3	6.4262 3.0912
29,385	3488	9.0	7.5961 19.6421	30,029	3631	8.8	21.0083 4.8283	32,386	3760	9.0	7.8887 1.6476
28,638	3489	9.2	8.0341 8.9861	30,376	3632	9.0	21.0083 4.8283	32,356	3766	8.9	8.5038 0.5544
28,551	3490	9.2	8.1075 7.7842	30,077	3638	9.1	22.8929 4.4908	32,405	3768	7.9	8.6309 2.3863
28,201	3492	9.2	8.2556 2.2780	30,343	3643	9.0	23.2968 0.6733	32,740	3771	9.1	9.0999 11.5832
29,457	3496	8.8	9.0957 20.1186	30,540	3646	8.6	23.9105 13.6998	32,741	3772	7.6	9.3157 11.9073
28,444	3500	9.0	11.4139 6.4167	30,848	3648	9.0	24.2629 19.6761	33,234	3773	9.0	9.4092 24.4486

8<sup>h</sup> 32<sup>m</sup>—9<sup>h</sup> 12<sup>m</sup>

HYDERABAD ASTROGRAPHIC CATALOGUE, 1900-0.

-22°.

Reference No.				Reference No.				Reference No.						
Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.		Mag.		Standard co-ordinates, 1900-0.				
Hyd.	Algiers.	ξ.	η.	Hyd.	Algiers.	ξ.	η.	Hyd.	Algiers.	ξ.	η.			
<b>R.A. 8<sup>h</sup> 32<sup>m</sup> (continued)</b>				<b>R.A. 8<sup>h</sup> 48<sup>m</sup></b>				<b>R.A. 9<sup>h</sup> 4<sup>m</sup></b>						
32,788	3774	8-9	9-4285	13-3801	34,249	3901	9-4	0-7560	11-7801	35,726	4024	9-1	0-5285	24-6529
32,615	3781	8-9	11-5869	8-7601	34,298	3902	9-4	0-8450	13-4588	35,336	4025	8-5	1-0992	8-1358
32,617	3785	8-9	12-5872	8-5628	34,001	3904	8-9	1-3330	0-7576	35,244	4026	9-1	1-1514	3-1758
32,621	3786	9-1	12-9511	8-6163	34,115	3905	8-7	1-6337	7-2711	35,202	4029	8-5	2-5423	0-9756
33,133	3787	9-3	13-2552	21-3900	34,538	3906	8-8	1-7461	22-2759	35,368	4032	8-8	3-1428	8-7553
33,009	3791	8-8	15-5309	17-6049	34,559	3909	9-0	2-9908	22-7390	35,647	4036	8-8	4-4701	19-8889
32,415	3794	9-2	16-0118	3-0668	34,445	3910	8-9	3-2047	19-0729	35,246	4039	8-3	5-8601	2-5973
33,172	3797	8-9	17-3328	21-6761	34,117	3913	9-2	4-0949	7-0700	35,224	4043	8-9	7-0712	2-0866
32,893	3801	8-9	18-0092	14-9854	34,355	3915	9-3	4-7263	15-8541	35,033	4044	9-0	7-3327	19-2974
32,589	3802	9-1	18-0720	8-2324	34,419	3916	8-6	5-2367	17-0391	35,466	4045	8-7	7-3423	12-7381
32,707	3804	8-7	18-0815	10-9503	34,148	3920	9-4	6-4612	7-8973	35,322	4046	8-8	7-6033	7-1428
32,368	3805	9-0	18-7908	1-2994	34,151	3921	9-2	7-1207	7-8886	35,343	4047	9-2	8-0363	7-7354
32,667	3810	8-2	20-1926	9-8010	34,261	3925	9-1	8-0686	11-6904	35,709	4048	8-5	8-6052	24-1143
32,982	3812	5-8	20-6479	16-8842	34,565	3927	9-2	8-3885	23-1628	..	4052	9-0	10-5509	0-0226
32,843	3816	9-2	21-1581	14-2044	34,225	3928	9-1	8-4832	10-7547	35,733	4053	8-8	11-0988	24-9281
32,393	3815	9-0	21-1782	2-2998	34,282	3930	8-5	9-1676	12-8120	35,577	4055	8-8	11-8824	8-9421
32,594	3818	8-3	21-5408	7-8903	34,460	3931	9-1	9-4862	19-1538	35,711	4057	8-8	12-6891	24-0530
32,983	3822	9-4	22-6940	16-8970	34,516	3932	8-2	9-4932	20-0611	35,667	4059	8-5	12-8312	20-9043
32,395	3821	8-4	22-7389	1-5218	34,264	3935	8-9	11-5813	11-5649	35,353	4061	8-6	13-5901	7-9414
32,395	3824	8-3	23-1604	23-2854	34,155	3936	9-1	12-0326	7-4880	35,473	4062	9-0	14-2153	12-8371
33,219	3824	8-3	23-1604	23-2854	34,205	3938	9-1	12-5254	11-8888	35,231	4066	9-0	15-0143	2-3255
32,377	3831	8-5	24-4827	0-3850	34,030	3941	8-3	12-8312	2-3880	35,535	4069	8-1	16-1925	15-3583
32,946	3832	9-4	24-7206	16-0119	34,078	3942	8-9	13-0049	5-2144	35,291	4072	9-0	16-5925	4-5684
<b>R.A. 8<sup>h</sup> 40<sup>m</sup></b>				34,268	3943	8-7	14-2642	11-9375	35,213	4074	8-6	17-2407	1-1400	
33,367	3821	8-4	0-3341	1-5402	34,201	3944	8-2	14-7973	9-8702	35,683	4077	6-8	18-2780	22-2388
33,727	3822	9-4	0-4903	16-9165	34,493	3945	8-1	15-6305	20-3833	35,699	4078	9-1	18-4963	23-6090
33,896	3824	8-3	1-0402	23-2975	34,024	3946	9-0	15-7396	1-7974	35,672	4080	8-4	19-1075	21-3774
33,354	3831	8-5	2-0630	0-3816	34,430	3947	9-3	15-9321	18-1628	35,295	4081	8-8	19-5915	4-9543
33,696	3832	9-4	2-5052	16-0038	34,528	3948	8-5	16-3027	20-8470	35,442	4084	8-9	22-2234	10-9164
33,795	3839	9-4	4-9324	18-9053	34,107	3954	8-7	18-0437	6-1699	35,748	4087	9-2	22-9560	24-9016
33,564	3841	8-0	5-0791	11-0700	34,498	3955	9-3	18-5260	19-8529	35,548	4088	9-3	23-6241	15-2744
33,510	3842	7-1	5-9057	9-0653	34,041	3961	9-2	21-1155	2-7545	35,318	4089	9-0	24-9866	6-0010
33,360	3843	8-9	6-8571	0-8038	34,081	3962	8-8	21-1575	5-3936	35,517	4091	8-9	24-9588	14-4640
33,798	3844	9-3	6-9664	19-0710	34,613	3965	8-8	22-0755	25-0804	<b>R.A. 9<sup>h</sup> 12<sup>m</sup></b>				
33,671	3845	9-1	7-2932	14-7124	34,437	3968	9-2	22-3098	18-6230	36,363	4087	9-2	0-8569	24-9165
33,629	3847	8-6	7-8134	13-3422	34,110	3967	8-8	22-3329	6-3572	36,127	4088	9-3	1-3990	15-2809
33,402	3848	8-8	7-8614	1-3532	34,059	3966	8-9	22-3457	3-5010	35,900	4089	9-0	2-6403	5-9906
33,372	3849	8-9	8-0125	1-3532	34,351	3976	8-5	25-1502	14-7204	36,009	4091	8-9	2-7230	14-4529
33,770	3850	9-3	8-7037	18-0906	<b>R.A. 8<sup>h</sup> 56<sup>m</sup></b>				35,801	4095	8-8	5-1306	0-4482	
33,600	3852	8-8	9-0922	11-4935	35,005	3968	9-2	0-1286	18-6468	36,202	4099	6-9	5-4973	18-5153
33,512	3853	8-5	9-7943	8-6512	34,914	3976	8-5	2-9178	14-7067	35,965	4100	8-9	5-7434	8-9322
33,425	3858	8-8	11-7952	4-4871	34,682	3982	9-0	7-6296	3-1141	36,150	4101	9-0	6-1258	16-3810
33,409	3860	9-0	12-3508	3-9911	34,995	3983	8-8	7-8163	18-4150	35,887	4102	8-5	6-2645	5-3975
33,426	3862	8-5	12-6165	4-3603	35,028	3984	8-6	7-8412	19-7434	36,018	4105	8-3	8-3540	11-3886
33,427	3866	8-9	13-0614	5-0457	34,806	3988	9-2	9-3439	8-8441	36,182	4107	7-8	8-7530	17-6171
33,604	3868	8-0	13-9581	12-2196	35,075	3989	7-5	10-4144	22-3491	35,825	4112	7-7	11-1800	2-2037
33,607	3876	8-9	16-2305	11-7211	34,831	3991	8-5	10-9242	9-9690	36,286	4118	8-3	12-4940	21-5521
33,379	3877	9-3	16-3305	1-3064	34,978	3993	7-3	11-4508	16-6324	35,924	4121	8-1	13-9586	7-4379
33,742	3878	9-1	16-5456	17-4600	34,904	3996	8-2	12-8369	14-0777	35,849	4122	9-0	13-9238	3-3979
33,782	3879	8-8	16-9239	17-5879	34,792	3999	9-0	14-5680	8-3720	36,243	4123	9-0	14-5540	19-1327
33,743	3880	8-8	16-9927	17-2581	34,809	3999	9-0	14-5680	8-3720	36,112	4125	9-1	14-6626	13-7865
33,745	3881	8-8	17-4934	17-3071	34,884	4002	8-8	15-4200	13-0437	..	4128	7-4	15-2829	0-0057
33,841	3885	9-0	18-6560	20-4790	34,812	4003	8-7	15-5523	9-2000	36,245	4130	9-1	16-1593	19-7594
33,473	3886	9-2	18-7161	7-2176	34,935	4006	9-1	16-9555	14-7880	35,895	4131	8-9	16-3878	5-1159
33,842	3887	9-0	18-7953	20-3915	..	4009	8-5	18-1108	0-0653	36,246	4132	8-7	16-4708	19-1994
33,747	3890	8-6	19-2071	16-9668	34,795	4010	8-9	18-2759	7-8530	36,247	4135	8-4	17-3954	19-7575
33,436	3891	9-2	19-9507	4-6154	34,694	4011	9-0	18-4059	2-5095	35,955	4136	8-8	17-4503	7-7117
33,641	3892	9-2	20-0736	13-0267	35,080	4012	8-9	19-4027	22-5270	36,162	4137	8-1	17-5685	10-0723
33,413	3898	9-4	21-9645	3-4763	34,697	4012	9-1	20-3214	3-1361	35,854	4141	8-8	18-4902	3-2355
33,500	3900	9-4	22-2063	7-4091	34,835	4018	9-0	21-3226	10-3988	36,290	4142	9-2	18-8478	21-5052
33,619	3901	9-4	23-0268	11-7657	35,037	4019	8-4	21-3350	20-2454	36,119	4145	7-4	20-2557	14-6013
33,663	3902	9-4	23-0939	13-4453	35,114	4024	9-1	22-6309	24-6336	36,359	4147	8-6	20-8421	24-8033
33,366	3904	8-9	23-7478	0-7520	34,798	4025	8-5	23-4175	8-1262	35,878	4148	9-1	22-4871	4-3952
33,477	3905	8-7	23-9634	7-2685	34,701	4026	9-1	23-5387	3-1676	36,252	4150	8-2	22-6146	19-4776
33,888	3906	8-8	22-2735	22-7532	34,659	4029	8-5	24-0540	0-9849	36,121	4151	9-3	22-7794	14-6266
33,920	3909	9-0	25-1180	22-7532	34,819	4032	8-8	25-4530	8-7721	..	4153	8-5	23-4411	0-2716
33,819	3910	8-9	25-3800	19-0902					36,383	4155	8-4	23-7156	24-9821	

Reference No.				Reference No.				Reference No.								
Hyl.		Algiers.		Hyl.		Algiers.		Hyl.		Algiers.						
		Mag.				Mag.				Mag.						
		Standard co-ordinates, 1900-0.				Standard co-ordinates, 1900-0.				Standard co-ordinates, 1900-0.						
		ξ'.	η'.			ξ'.	η'.			ξ'.	η'.					
R.A. 9 <sup>h</sup> 20 <sup>m</sup>																
36,511	4148	9-1	0-1199	4-4170	37,224	4285	6-6	20-9126	15-8827	37,935	4399	8-9	14-2353	9-9517		
36,851	4150	8-2	0-4446	19-4973	37,310	4286	8-9	20-9637	21-8180	38,175	4400	9-1	14-4402	23-9886		
36,736	4151	9-3	0-5459	14-6382	37,189	4289	8-9	21-5060	13-7471	38,170	4401	8-9	15-0482	23-9985		
36,451	4153	8-5	1-0200	0-2813	37,090	4290	8-3	21-9341	7-0382	37,806	4402	8-9	15-1052	1-1966		
36,943	4155	8-4	1-6176	24-9867	37,106	4294	8-0	23-2713	7-6213	37,868	4403	9-1	15-1915	6-4834		
36,456	4160	9-1	4-7820	1-1202	37,008	4296	8-0	23-5561	1-2328	37,862	4404	9-1	15-6888	4-7143		
36,479	4163	8-8	6-3388	2-3422	37,226	4297	9-3	23-7131	15-6848	37,812	4410	8-4	19-0564	0-9512		
36,493	4164	9-0	6-5539	3-3600	37,172	4298	8-8	24-0259	12-8260	38,107	4415	7-0	19-7743	19-6032		
36,742	4166	8-7	6-8688	14-9492	37,034	4300	9-1	25-2544	2-5520	38,108	4416	8-9	20-2902	18-9460		
36,922	4167	8-8	7-0200	23-7747	37,010	4301	8-1	25-6318	0-4704	38,179	4418	9-2	20-8679	24-2730		
36,724	4169	8-2	7-4001	14-1145	R.A. 9 <sup>h</sup> 36 <sup>m</sup>							37,891	4423	9-1	25-0437	6-6805
36,855	4170	8-0	7-4779	19-9379	37,501	4294	8-0	0-9462	7-6327	R.A. 9 <sup>h</sup> 52 <sup>m</sup>						
36,793	4171	9-2	7-5844	17-0918	37,401	4296	8-0	1-1476	1-2410	38,306	4423	9-1	2-7063	6-6693		
36,563	4173	8-3	8-8388	7-1320	37,642	4297	9-3	1-4934	15-6900	38,444	4426	8-8	4-0419	16-6183		
36,815	4174	8-6	8-8825	18-3908	37,583	4298	8-8	1-7601	12-8273	38,465	4428	8-6	4-5465	18-6908		
36,859	4177	9-0	9-4341	19-8729	37,425	4300	9-1	2-8630	2-5396	38,399	4429	8-8	5-2063	13-7182		
36,665	4178	8-6	9-7081	10-6319	37,404	4301	8-1	3-2131	0-4527	38,511	4432	8-6	6-9583	23-1005		
36,871	4179	9-1	9-9203	20-8706	37,604	4302	9-2	3-9363	14-1500	38,390	4433	6-1	7-1393	13-1898		
36,536	4180	8-1	10-2060	5-7205	37,731	4303	9-0	4-8807	22-4354	38,353	4434	9-0	7-4293	9-6007		
36,495	4181	9-2	10-7357	3-7872	37,427	4306	9-1	5-7250	3-1922	38,362	4437	8-5	8-6997	11-3467		
36,644	4186	9-2	12-5103	9-3518	37,427	4306	9-1	5-7250	3-1922	38,543	4436	8-1	8-7013	25-2860		
36,839	4187	8-3	12-6502	18-5837	37,690	4314	8-7	8-1105	19-1756	38,282	4442	8-7	10-7643	5-4005		
36,798	4188	8-9	13-0199	16-5323	37,717	4316	7-9	8-9273	20-2723	38,252	4443	9-0	10-8503	1-2279		
36,570	4193	8-9	16-4451	7-1900	37,763	4321	9-1	10-3757	23-8374	38,453	4445	9-0	11-0149	17-7739		
36,824	4194	8-5	16-4413	17-5818	37,663	4327	8-9	12-1586	16-7579	38,340	4451	9-2	14-6344	9-8075		
36,622	4197	9-0	17-3271	9-2481	37,751	4330	8-2	12-9313	23-7870	38,459	4452	9-1	15-7005	18-2212		
36,781	4199	9-1	17-5668	15-8139	37,433	4331	8-5	13-0770	2-5380	38,257	4454	8-1	16-4985	1-0367		
36,877	4200	9-1	17-9933	20-9360	37,633	4333	9-3	13-5933	14-8678	38,266	4455	8-8	17-7336	2-0403		
36,802	4201	9-1	18-0737	16-8134	37,602	4335	9-0	15-3680	5-0343	38,370	4458	8-3	18-6182	11-1369		
36,576	4202	8-9	18-5657	6-8181	37,421	4336	9-3	15-8660	1-1985	38,343	4459	8-7	19-7152	9-5284		
36,600	4209	8-6	19-6664	7-4878	37,741	4340	8-7	16-5034	22-3827	38,271	4460	8-3	19-7400	3-3325		
36,476	4210	8-8	19-7149	1-3009	37,753	4346	9-0	18-8931	23-1119	38,483	4462	9-1	20-0629	20-7395		
36,692	4211	4-8	20-5995	11-8739	37,697	4348	7-9	19-3022	19-1217	38,268	4464	8-9	21-5161	2-0160		
36,940	4213	9-1	20-8301	23-6022	37,507	4349	8-9	19-4699	23-0919	38,521	4466	8-7	21-7089	23-2993		
36,805	4215	9-1	21-9303	16-9509	37,755	4352	9-1	19-9718	22-8516	38,485	4467	9-0	22-0905	20-2715		
36,731	4216	7-6	22-2741	14-1537	37,561	4353	8-7	20-2731	11-3904	38,500	4470	8-0	25-5633	21-0432		
R.A. 9 <sup>h</sup> 28 <sup>m</sup>												38,441	4471	7-6	25-7976	16-4625
37,174	4216	7-6	0-0345	14-1780	37,527	4354	8-8	20-7376	8-9396	R.A. 10 <sup>h</sup> 0 <sup>m</sup>						
37,108	4221	8-6	4-2482	8-7124	37,435	4356	9-0	21-2025	2-5319	38,909	4467	9-0	0-5368	20-2900		
37,153	4227	9-0	5-4605	11-3793	37,668	4358	8-5	22-0202	16-8340	38,926	4470	8-0	3-4135	21-0240		
37,330	4228	6-2	5-5270	23-9018	37,744	4360	8-7	23-3112	22-1082	38,843	4471	7-6	3-5880	16-4401		
37,125	4231	8-3	5-9385	9-4584	37,656	4362	6-4	24-1420	23-8561	38,618	4475	9-0	5-8374	1-9404		
37,126	4235	9-1	6-7250	9-8107	37,500	4364	8-5	24-2739	7-0164	38,704	4481	9-0	7-7555	8-4106		
37,051	4239	8-2	8-2147	3-4145	37,512	4365	8-9	24-4577	8-2008	38,929	4486	9-3	10-8018	21-4417		
37,139	4241	9-0	9-0627	11-2542	37,779	4368	8-1	25-0263	25-3364	38,947	4489	9-2	11-8743	22-5301		
37,054	4244	9-1	11-0025	4-8332	R.A. 9 <sup>h</sup> 44 <sup>m</sup>							38,809	4490	7-6	12-0094	13-8950
37,333	4246	8-1	11-2826	23-6872	38,140	4360	8-7	1-1758	22-1183	38,884	4492	9-5	13-4154	18-4178		
37,334	4248	9-1	11-8162	23-8551	38,041	4362	6-4	1-9343	16-5528	38,637	4493	8-9	13-7443	2-7982		
37,156	4252	9-1	12-2207	12-1149	37,878	4364	8-5	1-9410	7-0151	38,900	4494	9-1	14-0819	19-0193		
37,260	4253	8-4	13-1280	18-6623	38,170	4363	7-5	2-0293	23-8550	38,858	4497	9-0	14-9644	15-6928		
37,197	4254	8-1	13-8935	14-5215	37,894	4365	8-9	2-1403	8-1960	38,610	4498	8-8	14-9881	0-8061		
37,180	4255	8-1	14-0198	13-9563	37,993	4367	8-9	2-6248	12-9153	38,625	4499	8-9	15-8475	2-3490		
37,296	4256	9-2	14-1006	21-4424	38,183	4368	8-1	2-9328	25-3230	38,783	4504	9-2	18-1371	11-8464		
37,199	4260	8-9	14-8528	14-8800	37,856	4370	8-5	3-1084	4-5491	38,937	4507	7-9	18-5039	20-8367		
37,005	4261	6-9	14-9546	0-3821	37,979	4375	9-0	6-4526	12-5376	38,797	4509	9-1	19-4249	13-3351		
37,447	4262	6-0	15-4487	18-0641	38,028	4381	7-6	6-5665	15-3056	38,799	4512	7-4	20-9351	13-0325		
37,897	4263	9-1	15-5752	21-5914	37,957	4382	8-2	6-9638	11-3886	38,764	4517	8-6	22-8673	11-0193		
37,298	4265	9-1	15-8292	21-4245	38,043	4383	8-2	7-0516	15-8378	38,803	4521	9-1	23-6345	12-8275		
37,200	4266	9-0	15-8076	14-5285	38,846	4385	8-6	8-8183	3-8663	38,060	4523	8-8	24-4551	4-2305		
37,184	4275	8-7	18-2910	13-9405	38,044	4388	9-1	12-2768	16-2875	39,002	4524	9-0	25-3663	25-0529		
37,044	4276	8-9	18-5676	3-5304	38,068	4389	9-1	12-3757	17-2044	R.A. 10 <sup>h</sup> 8 <sup>m</sup>						
37,285	4278	9-2	18-9749	20-0001	38,034	4391	8-2	12-9013	15-5817	39,179	4517	8-6	0-5868	11-0359		
37,337	4280	9-2	20-0612	24-3576	37,901	4395	8-3	13-5427	7-6441	39,206	4521	9-1	1-3776	12-8340		
37,287	4281	8-9	20-2240	20-1855	37,804	4397	8-5	14-0689	0-6596	39,106	4523	8-8	2-0857	4-2270		
37,310	4283	8-5	20-6318	21-6748												
37,343	4284	8-8	20-6448	25-0307												

Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Algiers.		ξ'.	η'.
R.A. 10 <sup>h</sup> 8 <sup>m</sup> (continued)				
39,413	4524	9.0	3.2692	25.0349
39,080	4525	9.1	3.6954	3.0856
39,164	4526	8.5	4.5132	10.1749
39,095	4528	8.9	4.7855	3.2313
39,324	4532	9.1	7.5260	19.8298
39,346	4540	9.3	9.3003	20.7279
39,057	4541	8.8	9.5279	1.2034
39,247	4543	8.6	10.6756	14.6596
39,307	4546	8.6	11.2229	21.7352
39,186	4547	8.9	11.3742	10.4945
39,371	4552	9.0	13.1650	22.5360
39,333	4557	7.3	16.2581	20.0269
39,156	4559	8.7	16.6926	8.9182
39,143	4560	8.6	16.9503	7.5725
39,105	4561	8.5	18.3209	3.7884
39,335	4562	9.1	18.3732	20.5525
39,280	4563	8.7	18.5459	17.0452
39,175	4564	8.8	19.2605	9.7071
39,254	4567	8.8	22.2601	14.9112
39,146	4570	8.8	23.3319	8.1317
39,394	4572	9.1	23.4920	23.1720
39,241	4573	8.6	23.7886	13.9236
39,220	4574	7.8	24.0429	12.8418
R.A. 10 <sup>h</sup> 16 <sup>m</sup>				
39,623	4567	8.8	0.0305	14.9355
39,534	4570	8.8	1.0136	8.1424
39,749	4572	9.1	1.5703	23.1797
39,611	4573	8.6	1.3460	13.9280
39,599	4574	7.8	1.7863	12.8429
39,462	4578	7.8	4.4526	2.1092
39,626	4579	9.0	4.6189	14.9028
39,640	4584	8.4	6.5569	16.0850
39,718	4585	7.7	7.8146	21.1742
39,528	4587	8.1	8.4206	6.5953
39,720	4588	8.4	8.5061	20.9572
39,601	4592	7.3	10.4585	13.2582
39,686	4593	7.8	10.4966	18.6269
39,706	4596	8.0	11.6217	20.2046
39,617	4597	8.6	11.7289	14.4168
39,723	4598	9.0	11.7823	20.7924
39,656	4601	8.9	13.9339	16.9440
39,518	4602	9.0	14.3343	6.7382
39,698	4605	9.1	15.3347	17.6859
39,604	4606	6.8	15.4195	13.2974
39,761	4608	9.1	16.6282	23.0904
39,661	4616	9.1	19.0264	10.0824
39,772	4618	8.1	21.0305	24.5532
39,555	4620	9.0	21.4794	9.2128
39,609	4624	8.5	23.4146	12.6815
39,460	4626	8.6	24.0805	1.2923
39,786	4629	8.8	25.5838	25.4133
R.A. 10 <sup>h</sup> 24 <sup>m</sup>				
39,964	4624	8.5	1.1558	12.6909
39,801	4626	8.6	1.0729	1.2939
40,151	4629	8.8	3.4913	25.3923
39,867	4631	8.3	4.1289	6.3614
40,132	4635	9.1	6.4067	23.7536
39,843	4636	8.8	6.9396	3.9397
..	4638	8.4	9.2652	0.1905
40,095	4640	8.8	9.5658	21.2669
..	4642	8.8	9.7699	0.0676
39,848	4647	8.1	10.6008	3.6789
39,832	4648	8.4	10.7179	3.3074
40,014	4651	8.8	12.5674	16.5704
39,810	4652	8.8	12.6415	12.7977
R.A. 10 <sup>h</sup> 24 <sup>m</sup> (continued)				
39,953	4653	8.9	12.7453	11.6510
40,005	4654	8.9	12.9790	14.7810
39,929	4655	8.6	13.7566	9.9015
40,116	4656	8.9	13.8302	22.7279
39,992	4657	8.4	14.0540	13.9743
39,931	4660	7.9	15.4492	9.8215
39,893	4661	7.3	15.6186	7.4007
39,932	4665	9.1	16.7417	10.0501
39,977	4669	9.1	18.0483	13.1028
39,997	4674	8.8	19.3765	13.6969
39,865	4676	8.7	21.3400	4.8308
40,124	4678	8.7	21.5196	22.6462
39,813	4677	9.1	21.5369	8.8466
39,922	4679	8.3	21.6267	9.1952
39,824	4687	7.1	24.5156	13.1900
39,854	4686	9.2	24.5419	2.2000
39,823	4688	8.7	25.4558	4.3786
39,884	4689	9.0	25.5058	6.4980
40,001	4690	8.5	25.9127	13.8771
R.A. 10 <sup>h</sup> 32 <sup>m</sup>				
40,213	4686	9.2	2.1460	2.1958
40,396	4687	7.1	2.2634	13.1849
40,257	4688	8.7	3.0882	4.3626
40,292	4689	9.0	3.1661	6.4809
40,410	4690	8.5	3.6692	13.8537
40,203	4692	9.1	4.3575	1.2818
40,214	4694	9.0	5.5906	2.1881
40,293	4696	9.1	7.0375	6.9125
40,328	4697	7.2	7.1871	9.2488
40,266	4699	5.9	8.0271	20.9312
40,566	4700	8.9	8.2465	24.0386
40,450	4701	8.8	8.6316	22.0429
40,235	4703	8.9	10.2585	2.3812
..	4704	8.9	10.5362	0.1754
40,236	4705	9.8	10.7682	2.6867
40,262	4706	9.0	10.8218	4.7984
40,314	4707	8.9	12.5086	8.3391
40,435	4709	6.9	13.1784	17.7540
40,238	4712	8.7	14.1850	2.9037
40,555	4714	7.7	15.2854	23.3534
40,267	4717	9.1	17.6000	5.3443
40,458	4724	8.9	20.4291	16.0542
40,407	4725	7.7	21.0094	13.1315
40,573	4726	9.0	21.1793	23.9443
40,574	4727	9.0	21.6690	24.1685
40,228	4730	8.8	23.3994	1.6072
40,460	4733	8.6	24.1759	16.4149
R.A. 10 <sup>h</sup> 40 <sup>m</sup>				
40,658	4730	8.8	0.9957	1.6174
40,849	4733	8.6	1.9059	10.4140
40,945	4736	8.7	4.1354	23.5879
40,740	4738	9.1	6.8818	9.3572
40,881	4739	8.7	7.3233	17.7529
40,972	4740	6.4	7.6873	25.3107
40,799	4741	8.4	7.6934	12.8110
40,913	4745	8.7	9.4594	20.2545
40,886	4746	8.2	10.9984	18.3059
40,889	4749	9.0	12.7282	18.1670
40,806	4750	9.0	13.0000	13.1977
40,828	4755	9.2	16.5409	13.9044
40,964	4756	8.0	16.6956	23.8755
40,659	4761	8.9	19.5164	0.9545
40,909	4763	8.7	20.2008	4.8400
40,776	4764	8.4	20.5311	10.8575
40,792	4768	9.2	22.8520	12.3791
R.A. 10 <sup>h</sup> 48 <sup>m</sup>				
41,150	4768	9.2	0.5893	12.3958
41,152	4769	8.7	1.4497	11.7016
41,233	4772	9.2	2.6933	18.1692
41,256	4774	8.6	3.3415	19.8175
41,095	4775	8.8	3.6895	8.6583
41,003	4780	7.7	8.4838	0.9337
41,064	4783	8.1	9.7677	7.5099
41,189	4784	9.3	10.8865	14.9313
41,275	4786	8.7	11.7312	21.0695
41,258	4788	8.7	12.1993	20.7889
41,067	4792	9.0	13.7246	6.9119
41,288	4798	9.1	15.4268	22.7886
41,261	4800	8.3	16.4602	20.7747
41,228	4805	8.6	19.2637	17.7101
41,253	4807	8.5	20.0498	19.0927
41,265	4808	9.0	20.2605	20.9233
41,009	4809	8.8	20.8870	0.8093
41,230	4812	8.5	22.0589	17.2265
41,074	4820	7.8	24.1575	7.0316
41,309	4821	9.0	24.2203	23.4483
41,010	4823	8.5	24.5000	1.4759
41.021	4824	9.0	25.0662	2.5100
R.A. 10 <sup>h</sup> 56 <sup>m</sup>				
41,437	4820	7.8	1.8248	7.0317
41,366	4823	8.5	2.0947	1.4723
41,670	4821	9.0	2.1023	23.4461
41,800	4824	9.0	2.6743	24.989
41,439	4827	7.8	4.7508	6.8548
41,424	4833	9.1	7.7785	6.0177
41,659	4835	8.2	8.1076	21.6233
41,692	4837	9.1	8.6169	25.2646
41,425	4839	9.1	9.4020	6.1217
41,473	4843	9.0	11.6260	9.0886
41,674	4844	8.4	11.8593	23.5801
41,359	4847	9.0	13.5379	0.4374
41,675	4850	8.8	14.5834	23.5520
41,414	4853	8.6	15.5468	4.6581
41,361	4854	8.9	16.1238	0.4960
41,460	4855	8.4	16.2363	8.3661
41,417	4856	8.2	16.4916	5.1345
41,676	4857	9.1	16.7698	23.4280
41,639	4859	8.9	17.5492	19.6182
41,699	4860	8.6	18.0135	25.9235
41,375	4863	8.7	20.5846	1.4178
41,580	4804	8.9	20.6735	16.3533
41,597	4867	9.1	21.5457	17.4782
41,506	4868	8.7	22.1120	10.1574
41,582	4873	8.2	23.3988	15.9569
41,521	4874	8.6	24.4110	11.2203
R.A. 11 <sup>h</sup> 4 <sup>m</sup>				
41,992	4873	8.2	1.1828	15.9663
41,907	4874	8.6	2.1330	11.2167
41,853	4875	8.7	4.0114	7.7462
41,855	4877	8.6	5.1188	7.6205
41,931	4878	8.6	5.4161	12.1366
41,782	4881	7.6	6.3514	2.2151
41,914	4885	8.7	7.1661	10.8619
42,123	4886	8.0	7.3896	25.1880
42,102	4887	9.0	9.0274	23.4259
41,824	4888	9.0	9.1299	6.0013



Reference No.				Reference No.				Reference No.			
Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.	Hyd.		Mag.	Standard co-ordinates, 1900-0.
Algers.			ξ'. η'.	Algers.			ξ'. η'.	Algers.			ξ'. η'.
<b>R.A. 11<sup>h</sup> 4<sup>m</sup> (continued)</b>				<b>R.A. 11<sup>h</sup> 28<sup>m</sup></b>				<b>R.A. 11<sup>h</sup> 44<sup>m</sup> (continued)</b>			
42,014	4890	8.8	10-6583 16-5856	43,030	5031	7.9	1-3821 11-1703	43,036	5151	9.3	13-2629 12-1630
41,955	4891	8.9	10-8824 13-1163	43,122	5033	9.3	2-9167 18-7433	43,566	5153	8.6	13-7580 7-5255
41,755	4892	7.3	10-9230 0-7344	43,163	5036	9.0	5-4619 24-1825	43,716	5155	8.8	15-4519 18-8245
41,878	4894	8.3	12-1540 8-4212	42,953	5041	8.8	6-7066 1-0484	43,639	5159	9.2	16-4789 12-4659
41,841	4897	8.9	12-5944 7-1984	43,084	5043	9.2	7-2006 15-7983	43,775	5161	8.4	17-2894 24-0980
41,865	4899	8.8	12-8726 7-4287	43,174	5045	9.3	8-0361 25-5719	43,776	5165	9.2	17-8631 24-4919
41,808	4901	9.1	13-1011 4-4193	43,159	5051	8.7	11-6174 22-9979	43,584	5163	8.5	17-8671 8-0571
41,809	4902	9.1	13-1070 5-2180	43,161	5053	7.6	12-9273 23-7020	43,744	5166	9.1	17-8976 21-1609
41,810	4906	9.2	14-7079 4-5431	43,133	5056	8.2	13-9543 20-0166	43,626	5167	8.7	18-3517 11-1203
42,132	4907	8.7	14-9866 25-1009	43,167	5057	9.3	14-1785 24-0821	43,515	5169	7.5	19-9143 1-9701
41,974	4908	8.9	15-7157 1-1620	43,044	5060	8.3	15-0135 11-8042	43,768	5171	9.2	20-0196 23-0508
41,843	4909	9.0	16-2418 6-9677	43,079	5061	8.9	15-0578 4-1635	43,590	5177	9.0	22-8838 8-4898
42,018	4910	8.7	16-2448 16-6128	43,168	5062	8.0	15-2028 23-8024	43,571	5178	8.9	22-9300 6-6220
42,103	4911	9.1	16-2974 22-6516	43,177	5065	8.6	17-9408 25-5833	<b>R.A. 11<sup>h</sup> 52<sup>m</sup></b>			
41,813	4915	9.5	17-6177 4-8360	43,178	5066	8.4	18-1708 25-2070	43,940	5177	9.0	0-5702 8-5063
41,815	4916	9.4	17-8060 4-8105	43,171	5068	9.2	19-6874 24-0521	43,915	5178	8.9	0-5920 6-6387
41,848	4917	9.1	20-3368 7-3521	42,967	5071	8.8	19-9898 2-3184	44,056	5184	9.0	4-8716 19-5213
42,004	4920	4.1	20-6025 16-3753	43,048	5072	8.7	21-6255 12-1240	43,888	5185	8.9	5-5868 4-7689
41,802	4926	5.9	23-1991 3-4973	43,097	5074	9.2	22-0276 16-5853	43,889	5186	8.4	5-8739 5-1024
41,850	4931	8.0	25-2976 6-9610	43,120	5079	7.7	24-0558 17-7909	44,120	5187	8.1	6-7010 24-9365
<b>R.A. 11<sup>h</sup> 12<sup>m</sup></b>				43,146	5081	8.7	25-2276 21-1104	43,959	5189	8.9	7-5253 9-7854
42,239	4926	5.9	0-8202 3-5099	<b>R.A. 11<sup>h</sup> 36<sup>m</sup></b>				43,969	5190	9.2	8-5443 8-8977
42,278	4931	8.0	2-9640 6-9466	43,365	5079	7.7	1-8638 17-7914	44,110	5191	9.2	8-8874 1-5990
42,428	4933	7.8	4-9357 18-4795	43,104	5081	8.7	3-0780 21-0949	43,979	5193	9.3	9-0009 11-4400
42,455	4938	8.9	7-2136 19-5994	43,256	5082	9.3	4-7366 6-2992	43,865	5194	7.5	9-5402 2-1881
42,326	4941	9.0	7-8513 10-2484	43,230	5086	9.4	5-9692 3-7107	43,948	5196	7.3	9-7402 8-5338
42,417	4946	7.5	9-6288 17-1584	43,242	5087	9.3	6-2664 4-8206	43,925	5199	8.7	11-2954 7-0328
42,328	4947	9.0	9-8810 9-9871	43,321	5090	9.0	8-7408 13-5150	43,996	5202	8.6	13-5015 2-7644
42,310	4949	9.4	10-6034 8-8177	43,128	5095	9.0	10-2184 2-7434	44,113	5203	9.2	13-6148 24-3231
42,266	4951	8.5	10-9606 6-4939	43,273	5097	8.9	10-8723 7-5753	44,081	5204	8.9	14-1989 20-7451
42,268	4953	8.4	11-4755 6-4954	43,291	5101	8.8	11-6065 10-3489	44,004	5208	9.2	16-5411 13-6100
42,257	4955	8.6	12-5329 5-0121	43,388	5102	9.1	12-3786 18-9704	43,874	5209	9.4	16-7277 2-8242
42,298	4959	7.2	15-3376 8-1863	43,390	5103	9.0	12-4633 19-3336	43,882	5210	9.5	17-8885 3-6547
42,350	4960	8.2	15-7203 11-6212	43,131	5105	9.0	14-1090 23-4101	44,106	5211	7.8	18-3374 23-2835
42,299	4963	9.2	17-7932 8-1609	43,282	5106	9.5	14-2320 9-3864	44,115	5213	9.3	19-0919 24-6884
42,465	4964	9.1	18-4991 19-8401	43,313	5108	8.8	14-9455 14-8361	43,904	5215	8.7	22-4415 4-8999
42,314	4969	8.4	20-5759 9-1486	43,327	5109	8.3	15-1708 14-1814	43,884	5216	6.3	23-0338 4-3955
42,261	4970	8.8	20-8366 5-2645	43,329	5112	9.0	16-4662 14-0182	44,136	5220	9.5	23-9022 25-9739
42,300	4972	8.8	21-6093 7-9596	43,249	5113	9.2	16-5682 4-5803	44,094	5221	9.0	24-1059 22-4786
42,510	4976	9.1	23-1144 22-7193	43,317	5114	8.9	17-0445 12-7408	44,076	5222	9.0	24-7171 19-7972
42,493	4979	8.0	23-9005 21-0057	43,236	5115	9.3	18-5266 3-8186	43,861	5224	8.3	24-9787 0-7291
<b>R.A. 11<sup>h</sup> 20<sup>m</sup></b>				43,318	5120	8.7	21-3772 12-8779	43,989	5227	9.2	25-4144 11-7633
42,877	4976	9.1	0-9869 22-7322	43,374	5121	9.1	21-6993 18-5985	43,997	5229	9.1	25-6537 13-3561
42,846	4979	8.0	1-7506 21-0081	43,401	5122	9.3	22-1663 20-0597	<b>R.A. 12<sup>h</sup> 0<sup>m</sup></b>			
42,677	4982	7.2	4-0848 7-7978	43,376	5129	9.0	25-1053 18-5487	44,184	5215	8.7	0-0808 4-9211
42,879	4984	9.3	4-3857 23-5975	43,215	5127	9.1	25-1653 1-7024	44,185	5216	6.3	0-6667 4-4101
42,780	4985	9.0	4-8682 16-1037	43,279	5128	9.1	25-1680 8-4980	44,421	5220	9.5	1-8171 25-9757
42,798	4986	9.3	5-6666 17-1674	43,284	5130	8.5	25-2202 9-1982	44,387	5221	9.0	1-9752 22-4781
42,679	4988	9.2	6-7718 7-4951	..	5131	7.9	25-3638 0-0545	44,362	5222	9.0	2-5512 19-7886
42,783	4989	9.3	7-2927 16-4534	<b>R.A. 11<sup>h</sup> 44<sup>m</sup></b>				44,152	5224	8.3	2-5034 0-7193
42,905	4993	8.7	8-0869 25-2007	..	5122	9.3	0-0010 20-0855	44,285	5227	9.2	3-1434 11-7467
42,784	4998	9.0	11-3065 16-3135	43,510	5127	9.1	2-7628 1-6904	44,306	5229	9.1	3-4934 13-3361
42,681	4999	7.8	11-4159 7-4620	43,575	5128	9.1	2-8543 8-4850	44,288	5232	9.2	5-2134 11-8577
42,785	5003	7.7	12-5091 16-9782	43,593	5130	8.5	2-9157 9-1843	44,272	5234	9.5	6-6366 10-7778
42,787	5006	9.4	14-3115 16-0782	43,699	5129	9.0	2-9230 18-5352	44,231	5237	8.0	7-0806 8-1593
42,908	5008	9.1	14-7507 25-3962	..	5131	7.9	2-9398 0-0401	44,204	5239	9.3	7-5221 5-3265
42,655	5010	8.5	16-0227 6-4046	43,700	5132	8.7	3-4161 18-2239	44,276	5243	8.8	10-4357 10-7676
42,771	5014	8.3	16-4881 14-6076	43,710	5133	8.5	5-9105 19-2245	44,190	5250	8.9	12-5298 4-4531
42,704	5019	8.4	18-8717 9-0343	..	5136	8.0	6-7441 0-0426	44,291	5252	9.0	13-9623 11-5300
42,866	5024	8.5	20-6479 24-6577	43,634	5138	8.8	7-7386 8-1324	44,169	5254	8.8	15-6819 2-3853
42,862	5026	8.7	21-4004 11-6812	43,752	5139	9.5	8-1324 21-9515	44,418	5256	8.3	15-7749 25-5127
42,777	5027	8.9	21-5425 15-4380	43,714	5140	8.9	8-3337 18-8335	44,330	5258	7.2	16-1633 15-8820
42,721	5031	7.9	23-6607 11-1641	43,715	5146	7.9	11-3716 19-4241	44,373	5260	8.8	17-9456 19-5681
42,831	5033	9.3	25-0062 18-7567	43,503	5148	9.3	11-9180 1-1690				

12<sup>h</sup> 0<sup>m</sup> — 13<sup>h</sup> 4<sup>m</sup>

HYDERABAD ASTROGRAPHIC CATALOGUE, 1900-0.

-22°.

Reference No.					Mag.	Standard co-ordinates, 1900-0.				Reference No.	Mag.	Standard co-ordinates, 1900-0.				Reference No.	Mag.	Standard co-ordinates, 1900-0.											
Hyd.		Algiers.			ξ'.	η'.	ξ'.	η'.	ξ'.			η'.	ξ'.	η'.															
R.A. 12 <sup>h</sup> 0 <sup>m</sup> (continued)										R.A. 12 <sup>h</sup> 24 <sup>m</sup>										R.A. 12 <sup>h</sup> 40 <sup>m</sup> (continued)									
44,278	5264	8-4	18-7321	10-7738	45,112	5386	8-7	1-2468	2-3481	45,885	5501	8-5	8-6735	16-7703															
44,161	5265	9-2	19-3969	1-5728	45,237	5390	7-9	3-0840	16-1950	45,914	5503	9-0	9-4794	19-2395															
44,331	5268	9-2	20-6780	15-8626	45,196	5392	8-0	6-9815	11-0562	45,704	5505	9-4	10-4654	0-9768															
44,303	5271	9-0	21-5046	13-2670	45,115	5394	9-3	7-2688	2-9645	45,717	5506	9-0	10-7856	2-4357															
44,224	5270	9-5	21-5247	7-3245	45,198	5398	8-7	8-9689	11-1435	45,933	5508	9-1	11-2300	21-4562															
44,266	5272	8-9	21-8765	9-9726	45,292	5399	8-7	9-8262	21-1188	45,705	5511	9-1	13-4976	1-1821															
44,312	5273	8-5	22-1908	14-2013	45,250	5403	8-7	11-4773	17-4397	45,732	5513	7-0	14-6473	3-6525															
44,304	5277	8-7	23-0766	12-6061	45,144	5404	8-9	11-6298	4-9818	45,845	5514	8-3	14-6716	14-0011															
44,395	5279	9-0	24-5929	22-8891	45,164	5406	9-0	14-1674	6-9431	45,773	5517	8-9	15-9595	6-9678															
44,255	5280	9-5	24-7493	9-0099	45,208	5407	9-0	14-3749	12-1039	45,863	5519	8-6	16-5786	14-9195															
44,351	5282	9-3	25-6021	17-6848	45,145	5408	8-6	15-2870	4-8972	45,787	5522	7-4	17-8947	8-0106															
R.A. 12 <sup>h</sup> 8 <sup>m</sup>					45,334	5412	9-2	16-3384	24-9424	45,848	5525	8-2	19-0565	0-0289															
44,619	5277	8-7	0-8168	12-6198	45,108	5414	8-7	17-3695	2-0763	45,848	5528	9-0	20-6427	14-4210															
44,567	5280	9-5	2-4424	9-0022	45,306	5416	8-8	18-1637	21-9408	45,760	5530	9-2	22-0036	6-4078															
44,740	5279	9-0	2-4676	22-8820	45,176	5420	8-0	21-8705	8-4480	45,989	5531	8-9	22-1361	25-1888															
44,680	5282	9-3	3-4083	17-6649	45,337	5426	9-5	23-5360	25-1300	45,832	5532	9-1	22-3461	12-3338															
44,606	5285	9-3	4-4749	11-7849	45,263	5427	8-3	23-7817	14-7761	45,776	5535	9-5	23-1465	6-9928															
44,635	5286	3-1	4-6036	13-7838	45,262	5430	8-6	24-7102	18-4489	45,941	5537	8-0	23-2970	21-3576															
44,487	5287	8-9	4-6961	2-7694	45,331	5432	8-1	25-5808	24-5747	45,736	5540	8-8	24-1087	4-0086															
44,780	5291	5-3	7-2426	25-5563	45,204	5433	9-0	25-7411	11-4677	45,816	5541	8-8	24-4341	11-1738															
44,555	5294	8-3	8-6862	7-8626	45,274	5434	9-3	25-8431	19-5628	45,763	5543	9-1	25-6359	5-8448															
44,625	5297	9-1	10-4700	12-5599	R.A. 12 <sup>h</sup> 32 <sup>m</sup>										R.A. 12 <sup>h</sup> 48 <sup>m</sup>														
44,674	5300	9-1	10-8972	16-6636	45,646	5426	9-5	1-4400	25-1370	46,101	5532	9-1	0-0828	12-3572															
44,658	5303	8-9	11-5907	16-1556	45,514	5427	8-3	1-5502	14-7805	46,233	5535	9-5	0-8134	7-0058															
44,473	5307	8-2	14-2757	1-9422	45,558	5430	8-6	2-5267	18-4406	46,077	5540	8-8	1-1517	21-3680															
44,474	5310	9-1	15-0938	1-1476	45,468	5433	9-0	3-4660	11-4469	46,077	5540	8-8	1-7365	4-0096															
44,601	5314	9-0	17-5201	11-0390	45,633	5432	8-1	3-4773	24-5540	46,139	5541	8-8	2-1551	11-1700															
44,458	5315	8-9	17-9406	0-6258	45,572	5434	9-3	3-6739	19-5393	46,096	5543	9-1	3-2874	5-8262															
44,751	5322	6-5	20-1941	22-5755	45,600	5435	9-5	4-0862	20-8252	46,140	5545	8-8	3-4932	11-1426															
44,543	5323	7-8	20-3838	7-0243	45,648	5436	8-0	4-2462	24-9639	46,223	5553	7-8	10-9089	20-1116															
44,529	5324	9-0	20-4486	5-8145	45,372	5437	8-6	4-5517	3-0968	46,225	5555	8-3	12-3907	20-4701															
44,631	5326	9-0	20-7392	12-3559	45,559	5438	9-1	4-8304	18-0440	46,190	5559	9-0	13-6355	16-9538															
44,510	5325	9-1	20-7395	4-0989	45,620	5439	2-4	5-0701	23-1443	46,227	5560	8-7	14-0481	19-7923															
44,536	5332	8-6	25-5336	5-8255	45,634	5441	9-1	6-2495	24-1074	46,177	5566	8-3	18-7870	15-0800															
R.A. 12 <sup>h</sup> 16 <sup>m</sup>					45,375	5445	9-3	7-6451	2-5193	46,082	5567	9-2	18-8348	3-4936															
44,845	5332	8-6	3-1848	5-8082	45,563	5449	8-8	10-3145	18-0224	46,285	5569	9-2	20-0436	25-6834															
44,974	5337	9-0	5-1843	17-7304	45,460	5452	8-9	11-5822	10-6059	46,128	5575	7-4	23-7210	8-5974															
44,894	5339	8-8	5-2866	10-6110	45,391	5455	9-1	12-1524	1-4459	46,181	5577	6-8	24-7179	15-5875															
44,975	5340	9-2	5-9404	18-5172	45,450	5459	9-1	14-7465	8-6906	R.A. 12 <sup>h</sup> 56 <sup>m</sup>																			
44,802	5341	8-6	6-6471	0-0643	45,356	5463	9-2	16-5770	0-6369	46,376	5575	7-4	1-4087	8-6031															
44,963	5342	9-1	7-0160	17-0057	45,507	5466	8-7	17-8767	13-8123	46,438	5577	6-8	2-4970	15-5794															
44,964	5343	9-1	7-3431	17-1068	45,508	5468	9-0	18-5992	14-3415	46,476	5581	7-0	4-2219	19-1939															
45,004	5344	9-3	8-2312	19-8301	45,655	5472	8-4	20-2664	25-1136	46,500	5584	8-9	5-3312	22-1770															
45,039	5347	8-9	8-8434	23-5336	45,641	5474	9-1	20-5352	24-0016	46,302	5585	7-2	6-3459	1-0836															
44,878	5350	8-6	9-4332	8-5734	45,382	5478	9-1	22-1933	3-1138	46,370	5586	8-9	7-2795	0-1881															
..	5352	8-7	9-5054	0-2511	45,480	5480	9-0	23-1437	0-3110	46,300	5587	8-3	7-6982	8-0638															
44,812	5353	9-3	9-6207	2-1199	45,643	5482	9-1	24-2433	24-6839	46,360	5589	9-1	8-7499	7-3209															
45,005	5354	9-1	9-9464	20-4769	45,475	5483	9-0	24-4653	11-7035	46,334	5595	8-7	10-6702	3-9896															
44,866	5355	6-5	10-2147	8-4386	45,384	5485	8-9	25-2708	2-6604	46,407	5600	9-1	13-4658	11-7738															
44,880	5356	6-2	11-2773	8-9206	45,527	5489	8-7	25-9683	15-2018	46,523	5601	9-0	13-5655	24-3434															
44,887	5358	8-9	11-9516	10-2676	45,395	5488	8-7	25-9994	3-9868	46,398	5605	9-0	15-1874	11-4294															
44,993	5360	9-4	13-4207	19-4504	R.A. 12 <sup>h</sup> 40 <sup>m</sup>										46,504	5611	9-0	18-0023	22-2706										
44,914	5362	8-9	13-8068	11-5722	45,701	5480	9-0	0-7232	0-3242	46,525	5616	9-1	19-8242	8-5934															
44,969	5363	7-9	14-3699	17-0099	45,980	5482	9-1	2-1416	24-6813	46,446	5617	8-5	21-8689	16-5087															
44,856	5364	9-2	16-6320	7-0848	45,818	5483	9-0	2-2137	11-6990	46,310	5618	7-5	22-8772	0-8296															
44,814	5365	9-4	16-9038	2-3138	45,713	5485	8-9	2-8809	2-6468	46,424	5619	9-0	22-8734	13-4701															
44,916	5366	9-3	16-5974	11-7588	45,727	5488	8-7	3-6266	3-9638	46,368	5621	7-7	24-8136	7-4553															
45,019	5368	8-6	17-1001	21-4083	45,858	5489	8-7	3-7422	15-1775	R.A. 13 <sup>h</sup> 4 <sup>m</sup>																			
44,945	5373	9-0	19-6312	15-5864	45,749	5491	8-7	4-3842	6-0361	46,551	5618	7-5	0-4635	0-8461															
44,858	5379	8-6	21-3135	7-1925	45,882	5490	8-8	4-4124	16-9164	46,681	5619	9-0	0-6250	13-4864															
44,958	5380	9-0	21-4434	16-4602	45,972	5496	8-8	7-6520	24-4458	46,610	5621	7-7	2-4863	7-4470															
44,959	5381	9-1	21-7074	15-9970	45,982	5500	8-9	8-4643	25-6680	46,813	5626	8-9	5-0999	25-1750															
44,815	5386	8-7	23-6409	2-3410																									
44,961	5390	7-9	25-2069	16-2107																									

Reference No.					Reference No.					Reference No.				
Hyd.		Mag.	Standard co-ordinates, 1900-0.		Hyd.		Mag.	Standard co-ordinates, 1900-0.		Hyd.		Mag.	Standard co-ordinates, 1900-0.	
Algiers.			ξ'.	η'.	Algiers.			ξ'.	η'.	Algiers.			ξ'.	η'.
<b>R.A. 13<sup>h</sup> 4<sup>m</sup> (continued)</b>					<b>R.A. 13<sup>h</sup> 28<sup>m</sup> (continued)</b>					<b>R.A. 13<sup>h</sup> 52<sup>m</sup></b>				
46,814	5634	8-5	9-4978	25-6525	47,673	5745	9-0	4-5846	24-7528	48,520	5858	8-5	0-6845	25-2736
46,767	5635	6-8	11-0178	19-8522	47,626	5746	9-7	5-0991	21-2757	48,522	5863	7-8	3-2630	25-6321
46,769	5636	6-0	12-0766	19-9990	47,601	5751	8-7	9-0704	17-5300	48,522	5864	8-9	3-4008	9-8980
46,777	5638	8-2	12-5993	21-1094	47,602	5753	8-9	9-1829	18-4447	48,523	5865	8-9	3-5390	6-3373
46,725	5640	8-3	13-1609	16-8170	47,553	5755	9-4	10-0816	0-1857	48,529	5866	8-8	4-3486	6-9811
46,631	5642	7-8	13-8574	8-7889	47,522	5757	8-5	11-1445	8-9937	48,534	5867	6-7	4-5809	10-0263
46,778	5645	9-0	14-0699	20-7225	47,511	5761	9-0	13-9684	14-7030	48,534	5868	8-3	5-5519	1-2052
46,799	5646	8-0	15-1027	23-5810	47,484	5765	9-3	16-8651	3-6895	48,521	5874	8-8	7-0780	1-8746
46,652	5648	8-2	15-8666	11-0574	47,568	5767	7-8	18-3885	14-2918	48,537	5876	9-0	7-2485	10-4866
46,634	5650	9-1	16-0683	9-0572	47,560	5768	9-3	18-5371	12-7713	48,497	5878	8-8	7-3779	16-2324
46,791	5657	9-0	21-2310	22-7214	47,504	5769	7-7	18-7838	7-1476	48,370	5879	9-0	8-4275	11-6134
46,748	5660	8-0	23-5468	17-8581	47,553	5770	8-5	19-5083	11-4726	48,381	5882	8-8	10-3358	13-3491
46,691	5662	9-1	24-0050	14-5545	47,593	5772	9-1	21-5793	17-4950	48,461	5885	7-8	11-3882	20-3682
46,655	5666	8-1	25-8828	11-0256	47,885	5773	8-6	22-4897	3-3334	48,461	5887	9-1	12-3690	2-9231
<b>R.A. 13<sup>h</sup> 12<sup>m</sup></b>					47,495	5774	9-3	23-0266	5-1553	48,362	5888	9-1	12-6770	10-9100
47,020	5660	8-0	1-3557	17-8654	47,470	5775	8-7	23-7084	2-1144	48,450	5889	8-8	12-7100	19-4133
46,979	5662	9-1	1-7707	14-5560	47,502	5776	9-0	23-8412	5-9792	48,423	5890	6-7	14-0044	2-2846
46,946	5666	8-1	3-6020	11-0030	47,537	5778	8-9	24-5618	9-5830	48,263	5894	9-2	15-3528	4-7593
46,857	5671	8-9	7-0180	1-4307	47,581	5779	8-2	24-8954	16-0958	48,424	5895	8-8	15-8916	17-5185
46,894	5676	8-0	9-4000	5-0504	47,632	5781	7-9	25-3287	21-5722	48,489	5896	8-8	16-1475	22-0923
47,092	5678	8-9	9-7478	25-2323	<b>R.A. 13<sup>h</sup> 36<sup>m</sup></b>					48,426	5899	9-3	18-0518	17-6583
46,878	5679	7-9	11-2749	4-1302	47,723	5773	8-6	0-1087	3-3549	48,364	5901	8-6	19-4839	11-3172
46,905	5680	9-0	11-9175	7-0180	47,731	5774	8-3	0-6693	5-1608	48,517	5902	8-4	19-8093	23-4066
46,853	5682	7-9	13-0038	1-1220	47,712	5775	8-7	1-3115	2-1203	48,506	5906	8-9	23-1904	23-4289
46,994	5683	8-3	13-0727	15-0553	47,737	5776	9-0	1-4948	5-9835	48,509	5907	8-5	24-9800	23-7531
47,043	5684	8-7	13-1145	10-9330	47,761	5778	8-9	2-2624	9-5776	48,288	5908	9-0	25-1662	5-7942
47,094	5685	9-1	13-9954	0-1678	47,796	5779	8-2	2-6810	16-0854	<b>R.A. 14<sup>h</sup> 0<sup>m</sup></b>				
47,056	5686	9-1	14-0841	24-0535	47,835	5781	7-9	3-1859	21-5553	48,870	5906	8-9	1-0721	23-4406
47,066	5690	9-1	17-5826	25-1542	47,821	5782	8-8	3-8750	19-3685	48,621	5908	9-0	2-8174	5-7815
46,922	5696	8-2	21-6372	8-3422	47,798	5785	8-6	4-0809	16-2279	48,804	5907	8-5	2-8658	23-7406
46,955	5699	7-5	23-0938	11-3277	47,714	5788	8-9	5-5779	1-9538	48,572	5912	8-0	4-9247	3-1680
46,886	5700	8-4	23-3918	4-1144	47,803	5792	9-0	8-1798	15-9142	48,589	5914	9-0	5-4070	3-7366
46,999	5701	7-4	23-9999	16-2854	47,783	5793	8-5	9-2808	14-5604	48,711	5918	7-3	8-2855	12-2962
46,873	5704	9-2	25-8743	2-5709	47,824	5794	9-0	9-8204	19-3244	48,666	5920	8-3	9-2361	4-3630
<b>R.A. 13<sup>h</sup> 20<sup>m</sup></b>					47,725	5795	9-4	10-0214	3-6165	48,660	5921	8-7	9-9127	4-4350
47,257	5699	7-5	0-8174	11-3413	47,871	5797	6-7	12-9840	24-3243	48,757	5922	7-5	11-6440	14-7105
47,197	5700	8-4	0-9349	4-4226	47,830	5800	8-7	13-3995	20-3309	48,566	5923	9-0	11-6894	2-2268
47,303	5701	8-4	1-7881	16-2868	47,759	5801	8-6	15-3701	7-4873	48,845	5925	8-7	12-4671	21-2231
47,173	5704	9-2	3-4830	2-5198	47,846	5803	8-8	16-7395	14-4518	48,624	5926	9-2	12-5667	6-0891
47,332	5706	8-1	4-9632	18-1754	47,813	5804	9-1	16-9007	21-0366	48,846	5927	8-7	13-0535	20-9237
47,333	5707	8-9	5-0566	18-1582	47,788	5806	8-9	17-6711	13-9497	48,740	5928	8-9	14-1580	14-4487
47,259	5715	8-6	9-6145	12-3671	47,773	5807	8-6	18-1356	11-3700	48,777	5929	8-6	14-2648	15-9678
47,414	5716	9-1	10-3920	25-7411	<b>R.A. 13<sup>h</sup> 44<sup>m</sup></b>					48,920	5934	9-1	17-9053	24-9748
47,390	5717	8-8	11-4771	22-9374	48,069	5814	9-1	4-1872	15-4494	48,583	5936	9-0	18-7777	3-1584
47,337	5719	8-9	13-0267	17-5680	47,963	5816	8-8	5-0822	6-2203	48,887	5937	8-4	19-0763	22-8657
47,295	5721	9-0	13-7195	15-0755	48,180	5819	8-9	6-4717	0-6205	48,684	5939	8-6	19-7860	9-5784
47,354	5725	8-8	14-9065	19-8608	47,907	5820	8-7	6-5523	24-7155	48,570	5942	9-1	21-6397	1-8326
47,375	5726	8-4	15-2494	21-6578	47,951	5827	9-5	7-7276	7-3300	48,781	5943	8-8	21-7416	16-4974
47,366	5727	8-7	16-1667	21-5441	47,980	5826	9-5	7-7276	7-3300	48,782	5945	8-8	22-8211	16-5175
47,243	5728	7-9	16-5910	10-3585	48,170	5828	8-7	8-0045	24-0326	48,746	5946	8-3	23-0879	13-8130
47,252	5730	7-5	17-1153	11-1552	48,008	5830	9-0	8-2254	8-6886	<b>R.A. 14<sup>h</sup> 8<sup>m</sup></b>				
47,265	5733	7-5	20-7289	11-5864	48,009	5833	8-9	10-2275	8-8929	49,168	5945	8-8	0-6124	16-5345
47,194	5734	8-7	20-9487	3-5876	48,083	5836	8-0	11-5647	15-7103	49,131	5946	8-3	0-8439	13-8266
47,267	5736	8-5	21-6307	11-9251	48,173	5839	9-0	12-6942	24-6437	49,209	5950	8-7	4-7571	18-6735
47,369	5737	8-6	23-4838	21-0671	48,176	5841	7-8	14-2631	8-1868	49,171	5953	8-5	6-4790	17-2585
47,381	5741	var.	24-7516	22-2128	47,995	5849	9-3	16-4435	24-3356	49,060	5954	9-2	6-5529	8-5280
47,255	5740	8-5	24-7836	11-2468	47,996	5852	9-1	18-0089	8-0419	49,117	5956	9-1	7-6511	12-6027
<b>R.A. 13<sup>h</sup> 28<sup>m</sup></b>					47,945	5854	9-0	20-9470	4-3792	49,121	5960	8-5	13-3013	13-0150
47,624	5737	8-6	1-3348	21-0751	48,120	5855	8-7	21-7574	19-5372	49,254	5961	9-1	13-5035	22-3234
47,540	5740	8-5	2-5059	11-2384	48,189	5858	8-5	22-7789	25-2562	49,245	5963	8-3	14-0181	20-9698
47,634	5741	var.	2-6173	22-2036	48,192	5863	7-8	25-3524	25-6499	49,295	5965	8-9	16-4136	24-1579
47,636	5744	9-1	4-4700	21-7845	48,023	5864	8-9	25-6961	9-9181	49,139	5969	8-4	17-2566	14-1710
					47,577	5865	8-9	25-8823	6-1591	49,231	5970	9-2	18-6884	20-2926

14<sup>h</sup> 8<sup>m</sup>—15<sup>h</sup> 20<sup>m</sup>

HYDERABAD ASTROGRAPHIC CATALOGUE, 1900-0.

-22°.

Reference No.				Mag.		Standard co-ordinates, 1900-0.			
Hyd.		Algiers.		ξ.		η.			
R.A. 14 <sup>h</sup> 8 <sup>m</sup> (continued)									
49,056	5972	9.1	22.4436	8.4684					
49,007	5975	8.0	23.0794	4.9079					
49,009	5981	7.6	24.4368	5.4222					
R.A. 14 <sup>h</sup> 16 <sup>m</sup>									
..	5972	9.1	0.1296	8.4904					
49,385	5975	8.0	0.7189	4.9218					
49,386	5981	7.6	2.0830	5.4189					
49,515	5987	8.8	5.9426	18.2924					
49,561	5988	8.8	6.6198	23.9176					
49,403	5993	9.1	11.3647	6.4025					
49,497	5996	8.8	12.6690	17.4927					
49,517	5999	9.0	13.0734	19.7063					
49,362	6000	8.8	13.3428	2.6937					
49,510	6003	8.9	15.3795	18.6824					
49,526	6006	9.1	15.8147	20.3954					
49,377	6009	9.1	18.7065	3.8495					
49,489	6011	9.0	19.1421	16.1761					
49,556	6012	9.0	19.2070	23.6989					
49,378	6013	7.8	19.5065	4.0577					
49,468	6018	9.3	21.9915	13.7849					
49,474	6020	9.0	22.3498	14.5558					
49,353	6025	7.7	24.6153	0.7834					
49,436	6027	7.7	24.9788	9.1448					
R.A. 14 <sup>h</sup> 24 <sup>m</sup>									
49,808	6020	9.0	0.1154	14.5791					
49,602	6025	7.7	2.2010	0.7783					
49,721	6027	7.7	2.6738	9.1341					
49,795	6028	8.7	3.8116	14.3276					
49,686	6032	8.0	5.3233	6.0331					
49,747	6033	8.9	5.6345	10.5251					
49,710	6035	7.5	7.1775	7.5230					
49,891	6041	7.9	9.1574	19.7501					
49,875	6043	7.7	9.7299	31.113					
49,714	6044	8.5	9.9551	7.5530					
49,754	6045	8.2	10.0473	10.8409					
49,814	6046	8.9	11.2891	15.1106					
49,969	6048	8.6	12.4259	24.7124					
49,628	6053	8.3	15.1403	1.6413					
49,879	6054	9.1	15.4132	19.0687					
49,784	6055	7.0	15.7992	13.1020					
49,803	6057	8.5	16.4153	14.3847					
49,915	6061	9.0	17.6843	20.6757					
49,705	6062	9.1	18.6551	6.5228					
49,975	6065	7.4	19.6945	25.0559					
49,904	6068	9.2	22.0707	19.7789					
49,774	6069	9.3	23.2903	11.6867					
49,760	6073	9.2	24.8501	11.4323					
R.A. 14 <sup>h</sup> 32 <sup>m</sup>									
50,083	6069	9.3	1.0186	11.6976					
50,084	6073	9.2	2.5747	11.4230					
50,090	6076	7.2	3.9990	12.4375					
50,144	6077	9.3	4.9525	18.9406					
50,066	6082	7.4	8.6914	9.8926					
50,183	6084	9.1	10.4047	21.7463					
50,067	6087	8.2	11.2393	9.4509					
50,157	6088	9.0	12.5350	19.5358					
50,046	6089	9.1	13.2181	8.2890					
50,185	6091	7.4	13.7790	21.7669					
50,108	6093	8.9	16.1988	14.2667					
50,197	6095	8.1	16.3678	23.5518					
50,092	6096	8.0	16.4002	11.7514					
50,024	6102	8.8	19.1076	3.9099					
50,104	6108	9.3	20.9381	12.6712					
R.A. 14 <sup>h</sup> 32 <sup>m</sup> (continued)									
50,114	6111	7.5	22.4683	15.2973					
50,201	6114	9.4	23.8874	22.8946					
50,223	6117	7.2	25.8611	25.0314					
R.A. 14 <sup>h</sup> 40 <sup>m</sup>									
50,413	6111	7.5	0.2438	15.3189					
50,512	6114	9.4	1.7622	22.8969					
50,542	6117	7.2	3.7634	25.0066					
50,470	6122	8.6	6.5704	20.0993					
50,337	6126	8.6	8.6634	7.4997					
50,472	6127	8.7	9.0589	19.5624					
50,473	6128	8.7	9.1847	19.8657					
50,374	6129	9.0	9.9359	10.8315					
50,456	6130	9.0	10.0327	18.4276					
50,309	6132	8.8	10.7828	6.0234					
50,396	6135	7.5	13.0779	12.8500					
50,503	6137	6.1	14.0289	21.7576					
50,397	6142	7.5	15.1156	12.7846					
50,362	6144	8.7	15.9495	9.9785					
50,409	6145	8.3	16.1995	13.6407					
50,505	6146	9.4	16.3854	22.4128					
50,411	6153	9.1	22.4657	13.7111					
50,383	6158	9.0	24.8298	10.8767					
50,421	6159	8.6	25.5271	14.9355					
50,273	6160	9.0	25.6613	2.3407					
R.A. 14 <sup>h</sup> 48 <sup>m</sup>									
50,766	6153	9.1	0.2202	13.7328					
50,724	6158	9.0	2.5473	10.8678					
50,630	6160	9.0	3.2671	2.3223					
50,775	6159	8.6	3.2975	14.9169					
50,871	6162	9.0	4.0956	23.0420					
50,737	6166	8.3	4.3105	12.1958					
50,897	6169	9.4	4.9425	24.9880					
50,705	6175	8.8	7.4864	8.8521					
50,653	6178	9.1	9.2171	4.6464					
50,654	6180	9.1	11.5213	4.5159					
50,634	6182	8.6	11.8540	3.3441					
50,851	6183	9.2	11.9159	21.1713					
50,861	6184	9.3	12.6260	21.8613					
50,656	6187	8.4	13.0291	16.6410					
50,801	6189	9.2	14.5394	16.7334					
..	6191	9.0	16.7751	0.3832					
50,699	6195	8.0	20.4597	7.9847					
50,614	6201	8.2	23.0697	0.5160					
50,615	6202	6.3	23.1241	0.5306					
50,719	6203	8.1	23.2861	10.0040					
R.A. 14 <sup>h</sup> 56 <sup>m</sup>									
50,951	6201	8.2	0.6518	0.5301					
50,952	6202	6.3	0.7066	0.5532					
51,054	6203	8.1	0.9922	10.0151					
51,089	6206	7.8	4.4801	13.0140					
51,054	6210	9.0	6.5794	23.6027					
51,031	6216	8.4	7.8629	8.1946					
51,155	6219	7.7	9.4939	18.4230					
51,214	6221	8.5	10.8700	22.4014					
51,070	6222	9.0	12.1831	11.0482					
51,024	6229	8.9	14.5412	7.1330					
51,037	6230	7.9	15.0811	8.4413					
51,012	6231	8.6	15.8630	6.2406					
51,208	6232	8.9	15.8989	21.6483					
50,961	6233	8.8	16.0315	1.3979					
51,128	6236	9.2	16.1730	16.6157					
50,962	6237	9.3	16.2528	1.1810					
51,232	6238	9.0	16.5877	23.1699					
51,106	6239	9.1	18.7681	14.5296					
R.A. 14 <sup>h</sup> 56 <sup>m</sup> (continued)									
51,218	6240	9.4	21.7414	22.3647					
51,075	6241	8.6	21.8006	11.0026					
51,199	6243	7.8	22.6687	20.5130					
51,201	6247	8.2	24.0949	20.0156					
51,103	6249	6.9	24.8941	13.2286					
51,245	6250	7.7	25.1373	24.2580					
R.A. 15 <sup>h</sup> 4 <sup>m</sup>									
51,564	6243	7.8	0.5123	20.5319					
51,550	6247	8.2	1.9319	20.0154					
51,454	6249	6.9	2.0424	13.2185					
51,596	6250	7.7	3.0297	24.2433					
51,378	6253	7.7	3.7216	6.6173					
51,407	6254	6.4	3.7429	8.7378					
51,426	6256	9.1	4.2283	9.3975					
51,508	6261	9.4	7.4880	16.7621					
51,427	6263	8.5	9.0686	9.5617					
51,568	6267	8.2	10.4509	21.1960					
51,585	6268	9.0	10.6143	22.7728					
51,450	6269	9.0	10.6853	13.1003					
51,353	6270	9.0	10.9759	5.1109					
51,440	6272	9.0	11.0640	11.2894					
51,441	6273	8.9	11.1769	10.9997					
51,324	6276	9.1	12.3709	3.1651					
51,357	6278	8.6	13.0019	5.3083					
51,510	6280	8.4	13.5976	17.0618					
51,412	6284	9.1	16.1487	9.0159					
51,413	6285	8.7	16.6432	9.3692					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.
R.A. 15 <sup>h</sup> 20 <sup>m</sup> (continued)					R.A. 15 <sup>h</sup> 44 <sup>m</sup> (continued)					R.A. 16 <sup>h</sup> 0 <sup>m</sup> (continued)				
52,244	6382	9-0	15-5354	14-8516	..	6523	8-2	6-5131	0-0914	54-445	6673	8-6	22-5191	23-9836
52,105	6384	9-1	16-6332	7-2841	53-441	6526	9-1	7-6162	4-9129	54-394	6674	8-3	22-5864	21-2577
52,321	6385	9-2	16-6761	19-4834	53-511	6528	9-3	8-8285	11-2914	54-320	6677	8-0	24-2293	14-7853
52,011	6391	9-2	20-0615	1-3767	53-534	6538	8-9	10-9494	12-9362	54-286	6679	7-2	25-2961	11-7673
52,183	6392	8-9	20-3391	11-1630	53-423	6543	7-7	13-2587	3-2187	54-430	6680	7-8	25-3577	23-1618
52,065	6393	9-1	20-3793	4-9432	53-033	6545	8-5	14-4942	19-8177	R.A. 16 <sup>h</sup> 8 <sup>m</sup>				
52,084	6394	8-9	20-6285	6-6144	53-033	6547	7-7	15-0574	24-4356	54-632	6672	9-0	0-0149	9-1620
52,281	6397	9-0	22-5051	17-2733	53-088	6547	7-7	15-0574	24-4356	54-913	6673	8-6	0-4080	24-0045
52,029	6398	9-2	23-0252	1-7798	53-591	6550	8-0	16-3354	16-8726	54-845	6674	8-3	0-4399	21-2777
52,199	6404	9-2	25-9492	12-6774	53-580	6553	8-9	17-2232	16-4747	54-735	6677	8-0	1-9978	14-7838
R.A. 15 <sup>h</sup> 28 <sup>m</sup>					53-455	6557	8-2	19-3990	5-5913	54-685	6679	7-2	3-0251	11-7521
52,712	6397	9-0	0-3063	17-2945	53-495	6561	8-6	22-7311	9-0971	54-886	6680	7-8	3-2357	23-1442
52,516	6398	9-2	0-6241	1-7946	53-474	6564	9-1	23-3031	6-4920	54-582	6681	9-1	3-9552	5-6570
52,663	6404	9-2	3-6809	12-6538	53-460	6565	9-2	23-8810	6-3088	54-687	6684	8-5	4-4016	12-2343
52,592	6406	7-5	4-3116	7-4532	53-553	6568	9-2	24-9966	13-7531	54-919	6687	8-8	5-5534	24-3304
52,054	6407	8-8	4-4282	11-1857	53-436	6570	9-0	25-8233	4-2739	54-570	6688	9-3	6-2732	4-9362
52,615	6413	7-5	8-3856	8-5171	R.A. 15 <sup>h</sup> 52 <sup>m</sup>					54-758	6690	8-2	7-2880	16-4290
52,776	6420	9-1	10-2580	21-1583	53-859	6561	8-6	0-4254	9-1154	54-546	6695	9-2	8-0565	2-5136
52,508	6428	8-0	13-9792	0-6070	53-830	6564	9-1	0-9637	6-5031	..	6699	9-0	9-7734	0-2552
52,762	6429	9-3	14-3600	20-9746	53-831	6565	9-2	1-5398	6-3125	54-924	6701	9-3	10-0696	23-9144
52,620	6430	8-7	14-8736	7-9903	53-933	6568	9-2	2-7518	13-7417	54-761	6702	9-0	10-0394	15-7363
52,649	6434	9-3	16-7053	10-6892	53-793	6570	9-0	3-4543	4-2531	54-690	6703	9-3	11-2040	12-4819
52,877	6443	7-7	19-4293	5-9444	54-002	6571	7-8	4-0841	18-6659	54-659	6704	9-1	11-5255	9-4739
52,708	6448	9-2	21-3517	16-2785	53-918	6576	9-2	5-6475	12-7836	54-637	6705	8-8	12-0985	8-9539
52,751	6450	9-0	22-2295	19-9570	53-780	6580	8-7	7-9959	3-7901	54-548	6706	6-8	12-4286	2-7358
..	6451	8-8	22-4083	0-2360	53-837	6583	8-2	9-5130	7-1252	54-743	6707	9-0	13-0575	15-2077
52,529	6452	8-8	22-7622	2-0750	53-872	6584	8-2	9-6095	9-8297	54-691	6708	8-8	13-6458	11-8734
52,651	6454	7-5	23-2374	10-4725	54-086	6586	8-4	9-8724	23-7070	54-798	6709	8-9	14-1171	18-1421
52,794	6455	6-1	23-8136	22-7526	53-906	6587	8-8	10-1043	12-1332	54-692	6710	7-4	14-1650	11-5771
52,662	6458	9-2	24-2049	4-3482	53-798	6588	8-8	10-9636	4-4732	54-730	6716	8-1	15-6587	14-5224
52,515	6459	8-8	25-3034	1-4494	53-781	6589	7-0	11-1734	3-3417	54-574	6717	8-9	16-3361	5-1408
R.A. 15 <sup>h</sup> 36 <sup>m</sup>					53-873	6590	9-3	12-4586	10-1288	54-575	6718	9-0	17-4019	5-0475
..	6450	9-0	0-0658	19-0818	53-966	6592	8-7	13-2577	16-0840	54-816	6720	9-1	17-8481	19-6884
..	6452	8-8	0-3049	2-0931	53-774	6594	8-8	14-7485	2-3586	54-935	6722	9-1	18-5709	23-8964
53,067	6454	7-5	0-9197	10-4842	53-992	6600	8-9	17-9989	17-7652	54-937	6723	9-2	19-4681	23-9402
53,291	6455	6-1	1-7106	22-7556	53-969	6602	9-0	18-4614	16-4012	54-899	6724	9-1	19-4850	23-5466
52,970	6458	9-2	1-8972	4-3466	54,091	6603	9-0	18-7355	23-9994	54-538	6728	7-6	21-6410	1-6820
52,919	6459	8-8	2-8075	1-4356	53,980	6605	2-3	19-7108	17-0668	54,862	6730	8-8	22-0930	21-1104
52,971	6463	8-5	3-8851	4-2796	53,785	6606	9-2	19-9408	3-5026	54,765	6731	9-0	23-3833	16-0031
53,275	6466	7-5	4-3155	21-6800	53,923	6608	9-0	20-8127	12-6289	54,863	6732	9-2	23-6745	20-8346
53,138	6469	7-9	5-1045	14-7818	53,911	6610	8-4	22-0084	11-6560	54,649	6733	8-6	23-7811	8-7739
52,904	6470	8-7	5-1422	0-3685	54,018	6613	9-1	23-8516	19-3496	54,908	6734	9-0	24-9303	23-8038
53,299	6473	6-6	6-0112	22-8886	53,860	6614	7-3	24-2389	9-4288	R.A. 16 <sup>h</sup> 16 <sup>m</sup>				
53,243	6477	8-7	7-0766	19-8013	53-999	6617	8-2	24-9412	17-0287	55,153	6731	9-0	1-1678	16-0127
53,096	6481	9-4	8-0617	12-9975	R.A. 16 <sup>h</sup> 0 <sup>m</sup>					55,097	6733	8-6	1-4725	8-8786
53,115	6482	9-1	8-1141	13-9957	54,358	6613	9-1	1-6800	19-3526	55,192	6732	9-2	1-5223	20-8400
52,978	6484	9-1	9-9202	4-3714	54,246	6614	7-3	1-9377	9-4277	55,211	6734	9-0	2-8168	23-7919
53,331	6488	7-9	12-9734	24-1007	54,343	6617	8-2	2-7510	17-9175	55,047	6735	9-0	3-9016	5-1925
53,264	6491	8-6	13-1990	21-5844	54,434	6620	8-6	4-1860	23-8492	55,180	6737	9-1	4-4174	19-2192
53,935	6495	8-3	13-8966	7-9309	54,281	6625	9-0	6-2165	12-2228	55,029	6739	9-1	6-2448	2-9342
52,910	6496	9-1	14-0953	0-8466	54,248	6628	8-8	7-9538	8-7784	55,149	6740	9-2	6-5393	15-1221
53,036	6501	9-1	16-0461	8-1474	54,165	6631	8-8	9-4136	1-9313	55,039	6747	8-9	8-9748	4-2159
53,214	6504	8-7	19-0822	17-6481	54,240	6643	8-0	12-5210	7-7868	55,040	6748	9-2	9-0328	3-9948
53,128	6506	9-1	19-8756	13-7252	54,332	6647	9-1	13-1337	16-9180	55,088	6751	7-0	9-6453	8-2030
53,287	6509	9-0	21-2853	22-2650	54,204	6648	9-1	13-7608	4-6489	55,165	6752	8-9	9-9049	17-2428
53,017	6510	8-8	21-6317	7-0113	54,274	6652	9-2	14-9371	11-5998	55,118	6754	8-5	11-3838	11-4371
53,253	6512	8-4	22-1326	19-9349	54,373	6653	8-8	14-9906	20-5112	55,061	6756	8-6	13-6987	6-0074
53,219	6514	7-2	23-6212	18-2999	54,252	6654	8-8	15-5732	8-8012	55,174	6757	9-2	15-4463	23-5886
53,176	6515	9-2	24-2984	16-3577	54,241	6655	8-2	15-6608	8-1258	55,207	6758	7-5	15-4463	23-5886
R.A. 15 <sup>h</sup> 44 <sup>m</sup>					54,389	6657	8-8	15-8989	21-4253	55,024	6759	8-9	16-5941	1-5839
53,595	6514	7-2	1-4358	18-3061	54,259	6658	8-5	16-8698	10-4881	55,140	6761	9-0	18-3392	14-6331
53,574	6515	9-2	2-0875	16-3551	54,177	6662	7-9	18-2101	2-7343	55,175	6763	8-1	19-7999	18-0822
53,427	6520	9-2	5-4725	3-6687	54,304	6667	9-0	20-1042	14-6970	55,176	6764	9-3	21-0255	18-1456
					54,378	6670	8-7	20-6760	20-0042	55,136	6765	8-1	21-1946	13-0607
					54,257	6672	9-0	22-3200	9-1384	55,067	6767	9-0	22-7095	6-5227
										55,096	6769	9-3	25-7360	7-8504



16<sup>h</sup> 24<sup>m</sup>—17<sup>h</sup> 28<sup>m</sup>

## HYDERABAD ASTROGRAPHIC CATALOGUE, 1900-0.

-22°.

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Algiers.	ξ'.	η'.	ξ'.			η'.	ξ'.			η'.			
R.A. 16 <sup>h</sup> 24 <sup>m</sup>					R.A. 16 <sup>h</sup> 48 <sup>m</sup> (continued)					R.A. 17 <sup>h</sup> 12 <sup>m</sup>				
55,286	6767	9-0	0-3701	6-5413	55,967	6866	8-2	14-9159	11-5488	56,769	7035	8-9	0-2356	1-6196
55,295	6769	9-3	3-4139	7-8301	..	6898	9-1	15-9479	0-0304	56,926	7041	8-8	2-0852	18-5711
55,316	6772	8-2	5-5019	11-7181	55,949	6899	8-7	16-1613	10-6866	56,803	7044	8-4	2-8265	3-9453
55,324	6773	9-1	9-6682	12-9723	55,889	6901	8-9	16-9628	7-1835	56,884	7048	8-5	4-6520	12-1941
55,276	6774	8-3	11-3449	5-1711	55,874	6904	6-7	17-4156	5-9903	56,873	7049	8-9	4-9332	10-7643
55,267	6775	8-6	12-5716	3-7141	56,148	6906	6-1	20-6452	24-9163	56,804	7051	8-2	4-9863	4-0765
55,331	6778	9-2	13-4119	15-6448	55,922	6908	8-4	20-7573	8-6734	56,875	7055	9-1	7-2477	10-9909
55,342	6781	8-6	17-5444	20-0205	56,051	6909	8-9	21-2903	18-0399	56,803	7056	8-9	8-3232	13-6971
55,280	6782	8-8	18-3609	4-7902	55,924	6912	8-8	23-3983	8-4442	56,865	7058	7-2	8-5753	9-8929
55,271	6783	5-3	19-1694	4-0435	55,824	6914	8-7	24-0935	1-6862	56,919	7063	8-8	10-1520	17-2844
55,265	6789	9-1	23-1588	2-7448	55,848	6916	8-8	24-2192	3-8033	56,833	7068	8-9	14-8434	6-7860
55,344	6790	8-9	23-6412	20-4140	56,125	6918	9-0	24-2909	23-5101	56,956	7071	8-7	15-4332	20-2121
					55,893	6917	9-5	24-3601	6-5766	56,895	7075	8-9	16-4882	13-5889
R.A. 16 <sup>h</sup> 32 <sup>m</sup>					R.A. 16 <sup>h</sup> 56 <sup>m</sup>					56,957	7081	9-1	18-3010	20-1918
55,412	6789	9-1	0-7700	2-7578	56,271	6912	8-8	1-0841	8-4539	56,826	7083	9-0	18-5466	6-1411
55,487	6790	8-9	1-4835	20-4199	56,210	6914	8-7	1-6909	1-6875	56,834	7088	9-1	19-0368	6-8860
55,467	6791	9-1	3-9072	17-8975	56,229	6916	8-8	1-8442	3-8029	56,910	7091	9-0	20-5701	14-6273
55,435	6795	8-6	6-1565	9-0145	56,257	6917	8-5	2-0216	6-5772	56,828	7094	8-4	22-0671	6-4949
55,440	6805	8-7	12-1289	11-2302	56,237	6918	8-5	2-1736	23-5070	56,988	7100	8-3	22-0209	22-9266
55,456	6807	9-0	13-3591	15-8833	56,346	6918	9-0	4-0311	8-4049	56,881	7101	9-1	23-0021	11-0648
55,499	6808	7-0	13-9125	21-2809	56,272	6923	9-1	4-0311	8-4049	56,959	7104	7-8	23-4590	20-8335
55,441	6811	9-1	15-9196	11-1395	56,239	6925	8-8	5-5103	5-1786	56,795	7106	9-0	24-3922	3-3746
55,442	6813	9-0	18-3286	10-5559	56,240	6929	9-2	6-5321	4-6302	56,768	7109	9-2	25-4650	1-5725
55,437	6814	9-2	19-7458	9-6597	56,248	6930	9-3	7-0573	5-9084	..	7111	8-8	25-7185	20-2846
55,429	6819	8-9	21-4704	6-7202	56,202	6933	9-1	7-5027	0-4184	R.A. 17 <sup>h</sup> 20 <sup>m</sup>				
55,485	6822	9-2	24-7691	19-1570	56,306	6932	9-0	7-5038	12-9666	..	7097	8-4	0-1274	6-5167
R.A. 16 <sup>h</sup> 40 <sup>m</sup>					56,307	6935	9-1	8-4557	12-7811	57,275	7100	8-3	0-4961	22-9462
55,685	6822	9-2	2-5948	19-1480	56,242	6938	7-4	8-9037	4-7145	57,182	7101	9-1	0-7222	11-0796
55,556	6826	8-6	4-8574	2-8427	56,337	6941	8-6	11-3104	21-1165	57,254	7104	7-8	1-3075	20-8417
55,574	6827	9-0	5-0745	7-0023	56,218	6950	9-2	14-5451	1-7047	57,118	7106	9-0	2-0116	3-3721
55,696	6829	8-0	6-5374	19-5739	56,328	6956	9-9	17-5936	19-4040	57,109	7109	9-2	3-0606	1-5566
55,657	6834	7-5	8-3057	17-0306	56,234	6955	9-1	17-6103	3-9487	57,249	7111	8-8	3-5589	20-2627
55,733	6836	9-0	9-1391	22-6668	56,235	6958	8-7	17-8643	4-2500	57,236	7116	8-1	4-3209	18-8309
55,740	6837	9-0	9-4829	23-7691	56,250	6960	8-9	18-1096	5-6081	57,228	7119	8-9	4-8156	17-6044
55,753	6838	9-0	10-1535	25-1132	56,342	6962	8-8	18-2617	21-8694	57,169	7123	8-0	6-3648	8-4460
55,634	6842	9-4	14-3080	14-6115	56,276	6967	8-3	20-5734	8-6416	57,162	7124	8-4	6-8981	7-5670
55,673	6843	8-0	14-3472	18-3452	56,295	6971	8-2	21-7941	11-4416	57,268	7125	8-2	8-4347	21-4941
55,580	6846	9-0	10-9959	8-1573	56,226	6974	7-4	23-4907	2-7407	57,149	7128	6-0	9-4200	5-1799
55,609	6847	9-0	17-2245	12-9295	56,227	6977	9-1	24-7806	3-1874	57,187	7132	8-5	10-7489	10-6362
55,611	6849	9-0	18-6034	12-8089	56,255	6978	6-8	24-7999	6-1481	57,273	7133	8-8	10-8474	22-3574
55,664	6850	9-0	18-9823	17-0914	56,228	6979	8-3	24-9793	2-5853	57,110	7139	9-0	11-8541	2-0494
55,560	6852	8-6	19-3958	3-8483	R.A. 17 <sup>h</sup> 4 <sup>m</sup>					57,164	7141	8-5	11-9326	7-4830
55,588	6854	8-5	20-3446	10-1737	56,530	6973	7-2	0-5060	12-2540	57,134	7144	8-9	12-9320	4-9197
55,562	6857	8-6	21-5393	3-4366	56,420	6974	7-4	1-1058	2-7495	57,135	7145	9-0	14-1107	4-5007
55,691	6862	8-8	21-8715	19-4378	56,421	6977	9-1	2-3975	3-1799	57,151	7147	8-5	15-0147	5-5742
55,703	6863	8-9	22-3837	19-8859	56,468	6978	6-8	2-4554	6-1400	57,137	7148	6-9	15-0802	4-9113
55,585	6865	7-7	23-0879	9-1487	56,422	6979	8-3	2-5884	2-5755	57,140	7158	9-1	20-2472	5-2359
55,590	6868	9-0	24-3428	10-5074	56,582	6986	8-8	6-7780	17-3418	57,243	7159	8-9	20-3629	18-9900
R.A. 16 <sup>h</sup> 48 <sup>m</sup>					56,507	7002	8-9	12-5971	8-9801	57,117	7162	9-0	22-2160	2-9902
56,077	6863	8-9	0-2192	19-9087	56,475	7004	9-0	13-9536	6-4670	57,288	7166	9-0	24-1965	23-4938
55,927	6865	7-7	0-7846	9-1624	56,535	7009	8-8	15-0499	11-5359	R.A. 17 <sup>h</sup> 28 <sup>m</sup>				
55,945	6868	9-0	2-0555	10-5048	56,415	7015	9-0	16-5944	2-0966	57,753	7166	9-0	2-0791	23-4919
55,993	6870	8-9	4-3820	13-4188	56,442	7016	8-5	16-7564	3-9863	57,661	7169	9-1	4-7296	16-9354
55,975	6873	9-2	5-1370	12-6719	56,520	7018	8-9	16-9952	10-2780	57,437	7170	9-0	4-8120	5-9121
55,883	6876	8-5	6-1612	6-8194	56,555	7020	8-7	17-2472	13-5146	57,628	7171	8-7	5-6840	15-4126
55,826	6877	9-1	7-3846	2-9336	56,564	7022	8-7	17-3902	15-3740	57,455	7172	9-0	5-8984	6-8747
56,105	6879	7-6	7-5211	21-8734	56,511	7024	8-5	18-8068	9-0031	57,592	7174	9-1	6-2523	12-6897
56,004	6880	8-6	7-5551	14-7784	56,656	7025	7-8	19-5059	22-6487	57,387	7177	9-1	7-8112	2-7229
56,083	6883	8-6	9-1757	19-5647	56,492	7030	7-3	20-4628	6-8326	57,554	7179	8-2	9-2531	10-0608
55,886	6886	9-0	11-0211	7-0951	56,476	7032	9-0	21-3912	5-8734	57,529	7180	8-5	10-2400	10-0359
56,006	6889	9-0	12-7745	14-7697	56,417	7035	8-9	22-6394	1-6000	57,507	7181	8-9	10-6631	9-2673
55,831	6893	9-0	13-6693	2-4488	56,604	7041	8-8	24-2671	18-5734	57,403	7183	8-9	11-2088	3-7866
55,936	6895	8-2	14-8571	9-5903	56,450	7044	8-4	25-1995	3-9581					

( 263 )

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.		Reference No.	Mag.	Standard co-ordinates, 1900-0.			
Hyd.	Algiers.	ξ.	η.	ξ.			η.	ξ.			η.			
R.A. 18 <sup>h</sup> 16 <sup>m</sup> (continued)					R.A. 18 <sup>h</sup> 24 <sup>m</sup> (continued)					R.A. 18 <sup>h</sup> 40 <sup>m</sup> (continued)				
65,447	7621	8.4	5.4422	22.3418	66,191	7765	9.4	23.4262	17.1452	67,585	7899	9.3	18.5562	1.8668
64,758	7622	9.0	6.2703	14.6452	66,221	7766	8.8	23.5033	19.1227	68,048	7901	8.8	19.1425	19.2315
65,247	7624	9.1	6.4008	19.8397	66,076	7770	9.3	25.1306	8.5971	67,903	7904	9.2	19.7730	15.2914
64,312	7625	9.2	6.9858	10.2988	66,193	7771	9.2	25.0903	16.4896	67,993	7925	8.5	25.8994	17.6238
65,048	7626	9.2	7.1468	17.9053						R.A. 18 <sup>h</sup> 48 <sup>m</sup>				
64,853	7628	9.2	7.8154	15.6897	R.A. 18 <sup>h</sup> 32 <sup>m</sup>					68,879	7925	8.5	3.7049	17.6000
64,125	7630	9.2	7.8701	7.5583	66,548	7763	9.2	0.7585	4.7371	68,790	7928	6.3	4.1992	16.3419
63,907	7631	9.1	7.9909	4.9498	67,042	7765	9.4	1.2258	17.1541	69,015	7930	9.4	4.4580	21.3987
64,055	7632	9.0	8.1957	7.4008	67,140	7766	8.8	1.3287	19.1305	68,746	7935	9.0	5.5180	14.6360
64,769	7633	9.0	8.5131	15.3977	66,743	7770	9.3	2.8183	8.5845	68,286	7939	9.0	6.4534	1.2438
64,207	7640	9.2	10.9102	9.3042	67,047	7771	9.2	2.8811	16.4766	68,658	7940	9.3	6.6234	12.7182
63,980	7641	9.0	11.0402	5.9981	67,249	7774	8.7	3.7037	20.4972	68,532	7941	9.0	7.0649	8.7271
64,669	7648	9.2	12.7508	14.5400	66,920	7776	8.7	4.9666	13.7123	68,256	7942	8.9	7.0309	0.7399
64,670	7649	8.6	12.8026	13.8090	66,963	7777	8.5	5.5536	15.0464	68,698	7946	7.8	7.8054	13.4660
63,790	7650	9.1	13.0126	2.5532	...	7778	7.9	5.6766	0.0384	68,259	7950	9.2	8.4424	1.1816
64,972	7651	8.3	13.1073	17.1190	67,157	7780	9.0	5.8184	18.7530	68,892	7951	8.5	9.1682	18.0702
64,871	7652	8.5	13.3789	16.4183	66,557	7782	9.2	6.0923	4.6451	68,941	7953	8.7	9.5143	19.1448
63,993	7655	9.3	14.4067	6.0276	66,481	7793	9.1	10.2578	2.5340	68,598	7960	9.0	11.1506	11.1510
63,735	7656	9.5	14.4795	1.4872	66,791	7794	9.1	10.2954	9.7994	68,424	7961	9.2	11.3240	6.2603
63,795	7657	9.0	14.8345	2.5598	66,707	7801	8.8	11.5177	7.9532	68,327	7966	8.6	12.0959	3.0780
64,148	7658	8.7	15.0702	8.5661	66,838	7802	8.7	11.6596	10.4045	68,460	7971	7.3	13.0684	6.7885
64,987	7662	9.2	15.7722	17.0061	66,602	7804	8.8	12.1314	6.9947	68,666	7972	9.0	13.0816	12.4913
65,393	7663	9.0	15.8314	20.9008	67,168	7806	8.9	12.5557	19.2716	69,033	7973	8.7	13.2796	21.3187
64,237	7667	8.2	17.3931	9.5708	66,841	7807	8.7	12.6979	11.1237	68,300	7974	9.0	13.5750	1.6637
64,507	7668	9.0	17.9310	12.6361	66,664	7808	7.0	12.7748	6.7620	68,900	7976	9.3	14.4613	17.7547
64,698	7669	8.8	18.3395	14.1277	66,969	7810	9.2	13.6775	14.9974	68,712	7979	9.2	15.4460	13.9387
64,429	7670	9.0	18.8829	11.4481	66,535	7811	9.1	14.3319	4.0880	68,272	7984	9.0	16.7474	0.6288
63,810	7673	9.2	19.3021	3.2382	66,490	7816	6.6	15.5952	2.6094	68,303	7985	9.3	17.0477	1.4162
64,513	7677	9.0	20.1475	11.7809	67,120	7818	9.2	16.1001	17.7943	68,905	7987	9.2	17.2029	17.7236
64,300	7685	8.9	22.2822	10.5298	66,880	7819	9.0	16.3221	12.2806	68,274	7989	9.3	17.7696	1.1379
63,751	7688	8.7	23.2818	2.1391	66,936	7821	8.6	17.1467	13.6507	68,369	8001	8.6	23.2024	4.4164
64,526	7689	9.1	23.4262	12.2435	66,497	7822	9.4	17.2368	2.3149	68,370	8004	4.1	23.5296	3.8867
64,919	7691	9.0	25.5682	16.0136	66,424	7824	9.1	17.7016	0.9276	68,612	8005	8.7	23.5789	11.4869
64,454	7694	9.0	25.8666	11.1995	66,450	7827	9.0	18.8276	1.6607	68,578	8009	9.2	24.8441	9.6235
R.A. 18 <sup>h</sup> 24 <sup>m</sup>					67,334	7828	8.9	18.9233	22.0563	69,058	8010	7.5	25.1555	21.0025
65,941	7688	8.7	0.8851	2.1506	66,729	7830	8.8	20.4399	8.0412	68,731	8011	9.1	25.3382	14.2706
66,132	7689	9.1	1.1617	12.2527	66,810	7832	8.8	20.5809	10.0079	R.A. 18 <sup>h</sup> 56 <sup>m</sup>				
66,170	7691	9.0	3.5527	15.9944	67,127	7834	9.2	21.1380	17.7999	69,405	8001	8.6	0.8355	4.4289
66,103	7694	9.0	3.5881	11.1771	66,641	7842	8.5	24.1851	6.0228	69,371	8004	4.1	1.1557	3.8948
66,044	7695	9.2	4.1921	7.9633	66,946	7847	9.2	25.1989	14.1799	69,688	8005	8.7	1.3044	11.4942
66,081	7701	9.2	5.5434	9.6434	66,546	7850	9.3	25.7844	4.1820	69,617	8009	9.2	2.5452	9.6146
66,196	7703	9.4	6.2460	18.3128	67,037	7852	8.9	25.8493	16.2419	70,109	8010	7.5	3.0054	20.9880
66,068	7705	8.9	7.4240	8.8056	R.A. 18 <sup>h</sup> 40 <sup>m</sup>					69,817	8011	9.1	3.1000	14.2546
66,012	7708	9.1	7.7944	5.9248	67,684	7842	8.5	1.8391	6.0226	69,821	8016	9.3	3.7846	14.2954
66,214	7710	9.4	7.9018	18.7067	67,853	7847	9.2	2.9595	14.1658	69,774	8019	9.3	5.2691	13.4806
65,989	7712	8.8	7.9325	4.6006	67,652	7850	9.3	3.4141	4.1618	69,455	8021	8.9	5.3251	5.4028
66,013	7715	9.3	8.7215	5.8082	67,919	7852	8.9	3.6367	16.2188	69,729	8024	8.3	6.3437	12.5850
66,084	7716	9.1	9.5942	9.3983	68,036	7855	8.4	5.5372	19.1139	69,694	8027	9.4	7.0859	11.7040
66,029	7718	8.9	9.8311	6.1593	67,690	7857	8.8	5.7049	6.0146	69,257	8030	9.3	7.8217	0.2932
66,086	7723	8.9	11.4943	9.4063	67,575	7859	8.1	6.2260	1.2130	69,698	8031	9.5	8.4109	11.6329
66,271	7724	8.8	12.0404	21.9755	68,108	7860	8.5	6.5695	22.2129	69,733	8037	9.3	10.6266	12.8030
65,934	7726	8.2	12.6714	1.2001	68,109	7862	9.1	7.3427	21.6119	69,901	8040	9.1	11.0259	16.0908
66,108	7730	8.8	14.6028	10.8330	67,580	7869	8.9	9.2786	1.8682	69,301	8042	9.1	12.5731	1.9169
66,054	7732	8.8	15.8174	8.1239	67,724	7871	9.2	10.0609	6.5676	69,801	8043	8.7	12.9745	15.8183
65,998	7736	8.5	17.1892	4.8246	67,753	7872	9.0	10.3553	8.5579	69,350	8056	8.9	17.3191	2.8268
66,274	7740	9.3	17.4427	22.3510	67,796	7873	9.1	10.4022	11.2897	70,144	8064	8.8	19.0356	21.4923
66,112	7743	9.2	18.2108	10.9205	67,560	7874	9.0	10.5060	0.3683	69,278	8065	8.8	19.2453	0.3781
66,254	7744	9.4	18.5799	21.3602	67,599	7877	6.4	11.1558	2.2351	69,603	8067	8.0	19.5642	9.1431
66,162	7747	9.2	19.1266	14.5338	67,070	7882	9.0	13.2465	4.5386	69,604	8069	9.0	20.2005	8.4469
66,113	7748	9.3	19.3781	10.4571	68,044	7885	5.9	13.8667	18.9617	69,715	8070	4.5	20.4923	11.6721
66,218	7751	9.3	19.7337	18.5455	67,870	7886	9.1	14.4386	13.4873	69,359	8071	8.9	20.5605	2.9421
66,187	7752	8.9	19.8974	17.3862	68,095	7889	9.0	15.4839	21.2745	69,312	8074	8.1	21.7235	2.1652
65,999	7756	9.0	20.3791	4.7858	68,016	7890	8.9	15.6119	17.7938	69,401	8075	9.0	22.0611	3.8067
66,189	7758	9.3	21.5219	16.5874	67,643	7893	9.2	16.8870	3.9411	69,314	8079	8.8	23.7050	1.8418
66,257	7760	8.9	22.1906	21.3429	67,935	7896	9.0	18.1437	16.3482	70,153	8082	8.9	25.0077	22.0622
66,002	7763	9.2	23.1214	4.7236										

Reference No.					Standard co-ordinates, 1900-0.				
Hyd.		Algiers.		Mag.	ℓ'.		n'.		
Hyd.		Algiers.			ℓ'.		n'.		
R.A. 19 <sup>h</sup> 4 <sup>m</sup>									
70,381	8079	8-8	1-3045	1-8481	71,346	8236	8-8	19-8594	13-6158
70,806	8082	8-9	2-8714	22-0495	71,096	8237	9-1	20-0814	6-3531
70,761	8083	7-0	4-5774	20-8312	71,618	8240	6-7	20-3214	20-0772
70,522	8085	8-9	4-7823	7-9690	71,233	8241	8-8	21-1729	9-6706
70,559	8091	8-9	5-8711	10-2357	71,348	8242	8-7	21-2132	12-8689
70,453	8095	8-7	6-8871	5-8162	71,273	8250	9-0	23-9300	11-0171
70,741	8096	9-3	7-4218	19-3228	71,472	8255	8-7	24-8878	16-1861
70,355	8097	9-1	7-6055	0-6602	R.A. 19 <sup>h</sup> 20 <sup>m</sup>				
70,584	8098	8-6	7-5391	11-2243	72,070	8250	9-0	1-6494	11-0199
70,396	8103	8-5	9-1360	2-7697	72,232	8255	8-7	2-6747	16-1757
70,455	8104	8-9	9-3314	5-8099	72,296	8260	8-9	4-2132	20-0143
70,369	8107	9-3	9-9960	1-6888	71,806	8263	9-1	4-7679	0-7303
70,745	8113	9-0	11-6357	19-4445	71,967	8267	9-2	5-3085	6-2823
70,530	8115	8-6	12-2260	8-4171	72,144	8276	8-7	7-5000	12-3526
70,508	8119	8-9	12-3309	7-9730	72,274	8283	9-1	9-3030	19-2382
70,417	8120	3-1	12-4871	3-1917	72,344	8295	9-1	11-9155	21-4575
70,564	8126	8-9	14-6584	11-0078	72,279	8296	8-9	11-9732	19-2685
70,509	8127	9-1	14-8172	7-4152	72,321	8298	7-0	12-2515	20-7623
70,458	8130	9-1	15-5554	5-4782	72,280	8303	9-1	12-9921	18-9445
70,790	8131	9-1	15-7422	21-6784	72,061	8304	8-2	13-4709	9-9011
70,440	8134	9-1	16-9920	4-4167	72,189	8306	8-8	13-9657	14-6583
70,423	8142	8-7	18-7250	4-0194	72,144	8307	6-0	13-9909	12-6940
70,616	8145	8-2	18-8700	14-1338	71,983	8308	7-4	14-4633	6-3217
70,568	8147	7-3	19-9358	10-8097	72,090	8310	8-6	16-2357	10-9091
70,688	8148	9-0	20-9220	17-2815	71,816	8316	8-8	18-0420	0-0099
70,751	8157	9-2	23-0667	19-5748	71,957	8319	9-1	18-7608	5-2232
70,799	8158	8-3	23-0675	21-8484	72,245	8320	9-1	18-9863	17-2715
70,623	8159	9-0	23-4357	14-1795	72,285	8324	9-2	19-4666	18-5424
70,444	8161	8-9	23-7075	14-3893	71,993	8325	9-3	20-1343	3-3410
70,666	8162	8-9	24-3439	5-5190	72,017	8336	8-4	23-5661	7-5596
70,673	8165	7-3	24-5174	15-8064	72,202	8341	8-9	24-6601	15-2493
70,675	8167	8-9	25-7240	16-0284	72,355	8345	9-1	25-0592	21-5044
R.A. 19 <sup>h</sup> 12 <sup>m</sup>					71,856	8346	8-7	25-3522	1-5393
71,589	8157	9-2	0-8981	19-5884	R.A. 19 <sup>h</sup> 28 <sup>m</sup>				
71,658	8158	8-3	0-9286	21-8619	72,638	8336	8-4	1-2493	7-5672
71,359	8159	9-0	1-1964	14-1884	72,811	8341	8-9	2-4347	15-2421
71,360	8161	8-9	1-5310	14-3938	72,949	8345	9-1	2-9156	21-9111
71,073	8162	8-9	1-9714	5-5170	72,518	8346	8-7	2-9475	1-5250
71,434	8165	7-3	2-3204	15-8006	72,621	8350	6-9	4-5295	7-2594
71,435	8167	8-9	3-5088	16-0071	72,670	8351	8-5	4-8327	8-6919
71,076	8168	9-0	3-7009	5-8997	72,623	8352	8-8	4-9113	7-1239
71,078	8172	9-1	4-3494	5-6923	72,722	8353	8-3	5-7018	11-1518
71,597	8174	9-0	4-5807	20-1914	72,565	8354	7-8	5-9797	4-0001
70,978	8177	9-0	5-8509	3-2881	72,723	8355	8-6	6-1313	11-1930
71,412	8180	9-0	7-3311	15-5066	72,521	8357	9-1	6-3406	2-1054
71,324	8181	8-6	7-3496	13-1384	72,692	8362	8-2	8-3166	9-7473
70,983	8182	8-7	7-7581	2-5597	72,836	8364	9-0	10-1560	15-5611
70,987	8185	8-7	8-4912	2-5092	72,917	8366	8-9	11-6204	19-8729
71,327	8186	8-8	9-1959	12-6705	72,896	8370	9-4	13-0813	19-1455
71,532	8191	9-1	10-1613	17-9038	72,542	8372	8-9	13-2593	2-7716
71,193	8192	8-5	10-2273	9-0722	72,699	8374	9-0	13-3571	10-0180
71,373	8193	9-0	10-3580	14-3968	72,860	8375	8-5	13-4501	16-8364
71,291	8195	9-0	10-7560	12-1668	72,842	8380	8-9	15-2149	15-6095
71,021	8197	8-1	11-0654	3-9876	72,513	8385	8-6	17-7038	0-9566
71,256	8204	8-7	12-1699	10-5269	72,878	8386	8-7	17-7723	17-6259
71,054	8208	9-1	12-6661	5-1776	72,550	8388	8-9	18-4537	2-6983
71,197	8210	8-7	12-9680	9-2187	72,963	8390	9-2	18-7308	21-7118
71,327	8211	9-0	15-5607	11-5976	72,902	8396	8-8	20-9054	18-9042
71,453	8222	8-5	15-5599	16-4157	72,714	8400	9-2	21-4533	9-6019
70,951	8226	8-5	16-7507	1-8879	72,739	8402	8-6	21-7163	11-2369
71,383	8227	9-2	16-7639	14-4984	72,533	8407	8-9	23-7712	1-4994
71,386	8229	9-1	17-2950	14-5537	72,995	8409	9-5	24-9117	18-9198
71,062	8231	8-7	17-4849	5-3931	72,997	8410	9-2	25-4880	19-1651
71,505	8232	8-6	17-8477	17-4368	R.A. 19 <sup>h</sup> 36 <sup>m</sup>				
71,064	8233	9-3	18-3281	5-0047	73,133	8407	8-9	1-3661	1-5048
R.A. 19 <sup>h</sup> 12 <sup>m</sup> (continued)					73,637	8409	9-5	2-7343	18-9089
72,070	8250	9-0	1-6494	11-0199	73,639	8410	9-2	3-3137	19-1464
72,232	8255	8-7	2-6747	16-1757	73,416	8417	8-8	6-8816	11-0189
72,296	8260	8-9	4-2132	20-0143	73,332	8419	9-0	7-2542	7-8041
71,806	8263	9-1	4-7679	0-7303	73,555	8421	8-0	7-3807	16-5021
71,967	8267	9-2	5-3085	6-2823	73,204	8422	8-8	7-3610	3-7971
72,144	8276	8-7	7-5000	12-3526	73,307	8425	8-3	8-4120	7-3833
72,274	8283	9-1	9-3030	19-2382	73,309	8428	8-3	9-2088	6-7909
72,344	8295	9-1	11-9155	21-4575	73,399	8429	8-1	9-9869	1-8287
72,279	8296	8-9	11-9732	19-2685	73,144	8431	9-2	10-4402	20-8013
72,321	8298	7-0	12-2515	20-7623	73,714	8437	8-7	12-5000	10-4511
72,280	8303	9-1	12-9921	18-9445	73,147	8438	8-6	12-8003	1-8341
72,061	8304	8-2	13-4709	9-9011	73,680	8439	8-9	13-1505	20-3652
72,189	8306	8-8	13-9657	14-6583	73,276	8442	9-2	13-9274	5-7350
72,144	8307	6-0	13-9909	12-6940	73,400	8446	8-6	15-9176	9-6172
71,983	8308	7-4	14-4633	6-3217	73,538	8452	8-9	17-6329	15-0074
72,090	8310	8-6	16-2357	10-9091	73,723	8454	8-9	18-0186	21-2514
71,816	8316	8-8	18-0420	0-0099	73,282	8455	9-1	18-1650	5-7970
71,957	8319	9-1	18-7608	5-2232	73,466	8456	9-3	18-9029	12-5273
72,245	8320	9-1	18-9863	17-2715	73,116	8458	8-7	20-1704	1-3324
72,285	8324	9-2	19-4666	18-5424	73,154	8459	9-0	21-1399	1-7492
71,993	8325	9-3	20-1343	3-3410	73,092	8461	9-0	21-8258	20-4142
72,017	8336	8-4	23-5661	7-5596	73,603	8465	8-9	24-0446	16-8038
72,202	8341	8-9	24-6601	15-2493	73,191	8466	8-9	24-6853	3-2719
72,355	8345	9-1	25-0592	21-5044	73,499	8470	8-0	25-7661	10-2373
71,856	8346	8-7	25-3522	1-5393	R.A. 19 <sup>h</sup> 44 <sup>m</sup>				
R.A. 19 <sup>h</sup> 28 <sup>m</sup>					74,133	8465	8-9	1-8397	16-8046
72,638	8336	8-4	1-2493	7-5672	73,928	8466	8-9	2-3034	3-2656
72,811	8341	8-9	2-4347	15-2421	74,044	8470	8-0	3-4750	10-2164
72,949	8345	9-1	2-9156	21-9111	74,044	8470	8-0	3-4750	10-2164
72,518	8346	8-7	2-9475	1-5250	73,931	8473	8-7	3-8422	2-8102
72,621	8350	6-9	4-5295	7-2594	74,057	8477	9-1	6-0304	11-6104
72,670	8351	8-5	4-8327	8-6919	74,057	8477	9-1	6-0304	11-6104
72,623	8352	8-8	4-9113	7-1239	74,080	8480	8-6	6-2506	13-8887
72,722	8353	8-3	5-7018	11-1518	74,094	8484	7-6	7-7011	3-4539
72,565	8354	7-8	5-9797	4-0001	73,935	8485	9-0	7-9106	5-5364
72,723	8355	8-6	6-1313	11-1930	73,990	8488	9-0	8-5599	0-2213
72,521	8357	9-1	6-3406	2-1054	74,121	8489	9-2	8-9471	16-2717
72,692	8362	8-2	8-3166	9-7473	73,912	8491	9-1	11-2391	0-6866
72,836	8364	9-0	10-1560	15-5611	73,913	8493	8-9	12-6172	0-9498
72,917	8366	8-9	11-6204	19-8729	74,051	8497	9-1	13-6115	10-3041
72,896	8370	9-4	13-0813	19-14-1					

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.	Hyd.	Algiers.		ξ.	η.
R.A. 19 <sup>h</sup> 52 <sup>m</sup> (continued)					R.A. 20 <sup>h</sup> 16 <sup>m</sup> (continued)					R.A. 20 <sup>h</sup> 40 <sup>m</sup> (continued)				
74,486	8572	8.6	22-0837	9-8823	76,212	8740	8.8	19-3127	6-9309	78,489	8882	8.8	6-1896	20-9697
74,510	8573	9.1	22-2403	10-9892	76,533	8743	8.7	19-9072	17-4756	78,265	8884	8.9	6-7362	6-5420
74,663	8574	8.7	23-3255	17-6553	76,132	8744	8.2	20-0480	3-8467	78,286	8889	8.5	7-4357	8-1266
74,410	8578	9.0	25-1709	5-4222	76,218	8753	8.8	23-1392	6-8096	78,469	8890	8.9	7-7802	20-3573
R.A. 20 <sup>h</sup> 0 <sup>m</sup>					76,331	8754	9.0	23-1822	10-7605	78,288	8893	8.0	8-5582	7-6393
75,184	8574	8.7	1-1318	17-6655	76,395	8755	8.7	23-3065	12-8598	78,358	8894	8.9	9-5287	12-5922
74,976	8578	9.0	2-8170	5-4095	76,422	8756	9.0	23-3397	14-3299	78,159	8896	9.0	10-0269	0-3758
74,916	8584	8.6	4-8580	1-2966	R.A. 20 <sup>h</sup> 24 <sup>m</sup>					78,220	8897	7.5	10-3352	4-0415
75,151	8589	9.1	7-9420	16-0646	76,940	8753	8.8	0-8037	6-8228	78,268	8898	8.5	11-5026	7-1721
75,216	8590	8.0	8-9154	18-6471	77,056	8754	9.0	0-8983	10-7729	78,473	8900	9.0	11-7085	20-4418
75,152	8591	9.4	9-0754	15-5094	77,102	8755	8.7	1-0500	12-8705	78,221	8902	9.2	12-8588	3-6024
75,194	8592	9.1	9-1716	18-1425	77,139	8756	9.0	1-1025	14-3400	78,380	8906	7.8	13-9659	14-2183
75,154	8595	9.1	10-1431	15-3501	76,844	8764	8.7	4-7039	2-0463	78,346	8907	6.4	14-0310	11-5350
74,981	8596	9.2	10-4068	5-3716	77,184	8769	8.9	5-7797	16-7026	78,462	8910	7.7	14-8951	19-3273
75,031	8597	7.7	10-4406	8-1498	77,187	8773	8.5	8-0879	17-2285	78,475	8914	9.0	15-7576	20-2923
74,907	8604	8.4	13-7390	4-4198	76,951	8779	9.1	9-4223	6-5064	78,435	8917	8.9	16-0638	16-7425
75,107	8608	7.6	14-8897	12-5223	76,866	8782	7.4	10-7352	3-7963	78,386	8918	8.9	17-5785	14-3792
74,955	8609	8.9	15-0263	3-2839	76,954	8785	9.0	12-4225	6-5026	78,326	8921	9.2	20-1137	9-6483
75,056	8615	8.7	17-3783	9-7028	76,987	8790	9.1	13-6281	8-0803	78,450	8922	8.9	20-3890	18-3419
74,939	8617	8.0	18-0258	2-4557	76,835	8795	7.3	15-4713	1-5282	78,211	8925	9.0	20-8721	2-8448
74,968	8624	8.9	20-8257	4-3112	77,226	8797	9.1	15-9261	18-4250	78,169	8927	9.2	21-8762	0-8847
75,206	8630	8.9	23-0767	18-2810	77,227	8798	9.2	16-1540	17-6613	78,368		8928	8.9	22-2337
75,086	8632	8.8	24-2540	10-8142	77,249	8803	7.8	19-5991	18-9244	78,171	8929	8.6	22-7247	0-9639
75,225	8634	9.2	24-9713	19-2470	77,250	8804	8.3	19-6722	19-0096	78,173	8932	9.0	24-3005	0-7396
R.A. 20 <sup>h</sup> 8 <sup>m</sup>					77,046	8809	8.8	23-0833	10-2132	78,427	8933	8.6	24-2230	16-2119
75,804	8630	8.9	1-4912	18-2866	77,882	8810	8.9	23-1567	3-8730	R.A. 20 <sup>h</sup> 48 <sup>m</sup>				
75,627	8632	8.8	1-9707	10-8128	77,280	8811	7.6	23-1845	19-8763	78,602	8929	8.6	0-3126	0-9824
75,841	8634	9.2	2-7982	19-2352	76,995	8812	9.2	23-5046	8-1790	78,757	8932	9.0	1-8854	0-7384
75,572	8638	8.9	3-3559	8-3235	R.A. 20 <sup>h</sup> 32 <sup>m</sup>					78,729	8933	8.6	2-0103	16-2103
75,574	8639	8.5	4-6136	8-1992	77,723	8809	8.8	0-7922	10-2270	78,690	8936	7.4	4-9871	9-2102
75,479	8640	8.9	4-6646	4-8173	77,556	8810	8.9	0-7827	3-8860	78,729	8938	9.1	5-4403	12-9941
75,736	8643	8.3	6-1210	15-9807	77,974	8811	7.6	1-0198	19-8883	78,739	8941	9.3	5-7795	13-7081
75,577	8648	9.1	7-9121	8-1840	77,670	8812	9.2	1-1869	8-1873	78,758	8942	9.0	6-5360	16-5533
75,695	8655	8.7	11-2537	9-8899	77,864	8819	9.3	5-8817	14-9891	78,650	8943	9.0	6-6008	5-8094
75,787	8656	8.8	11-3927	13-1666	77,506	8821	9.1	6-3241	0-5283	78,675	8949	7.2	9-0722	8-2803
75,578	8658	8.9	11-9830	8-5692	77,934	8826	9.4	7-9618	18-2070	78,616	8953	9.3	11-2954	1-8058
75,766	8665	8.0	14-1622	17-0882	77,935	8828	9.2	8-1650	17-8388	78,774	8954	8.7	11-8655	17-0285
75,658	8666	9.0	14-8172	11-3447	77,807	8829	9.0	8-1546	12-8742	78,713	8961	8.7	14-7771	11-0916
75,527	8668	9.0	15-4017	6-8932	77,589	8830	8.8	8-9358	4-8663	78,749	8963	8.9	15-3857	15-5957
75,447	8670	9.0	15-8770	2-2955	77,704	8831	7.3	9-2278	0-1718	78,641	8964	9.1	15-7188	4-9410
75,612	8673	8.5	17-6106	10-2128	77,794	8839	8.6	12-4229	9-1998	78,789	8966	8.5	15-9195	18-7837
75,470	8680	9.0	21-2541	3-8097	77,842	8841	8.9	13-3238	14-1333	78,800	8969	8.4	17-2176	19-0488
75,592	8682	7.1	22-0770	8-5267	77,736	8843	8.7	14-4970	10-2813	78,667	8970	9.1	17-5724	6-9595
75,535	8684	9.0	22-3581	7-1940	77,594	8845	7.4	14-7447	5-1075	78,792	8975	8.8	19-5596	18-7428
75,728	8688	6.1	24-5310	14-4666	78,009	8848	8.9	15-6554	21-0355	78,772	8977	9.2	20-6465	0-6173
75,778	8689	8.4	24-7054	16-7309	77,627	8850	9.0	16-2448	6-3466	78,780	8978	7.5	21-5866	17-6914
R.A. 20 <sup>h</sup> 16 <sup>m</sup>					77,599	8855	8.1	18-1093	4-4807	78,737	8981	9.0	22-7954	13-1952
76,428	8688	6.1	2-2955	14-4012	77,604	8857	8.1	19-6784	4-7723	78,726	8988	8.6	24-1582	12-3178
76,485	8689	8.4	2-4995	16-7229	77,687	8858	8.8	20-3620	7-8799	78,688	8989	8.9	24-4851	8-2766
76,546	8697	8.5	5-5535	18-2880	77,824	8859	8.7	20-5302	12-7464	78,704	8992	8.8	25-4695	9-6917
76,200	8698	8.6	5-9703	6-8163	77,634	8863	9.1	22-7483	6-0906	R.A. 20 <sup>h</sup> 56 <sup>m</sup>				
76,143	8700	7.0	6-2740	4-1723	77,555	8866	8.8	23-4891	3-0317	79,089	8981	9.0	0-5433	13-2127
76,467	8704	9.0	6-8808	15-4128	78,023	8868	9.1	23-4954	20-9802	79,072	8988	8.6	1-8946	12-3174
76,119	8705	9.0	6-8709	3-7433	77,718	8872	8.9	25-0087	8-6152	78,995	8989	8.9	2-1687	8-2724
76,343	8707	8.9	7-7364	11-7091	77,697	8873	9.5	25-3717	8-0617	79,038	8992	8.8	3-1714	9-6747
76,098	8714	8.5	10-0178	2-4134	R.A. 20 <sup>h</sup> 40 <sup>m</sup>					79,099	9005	8.8	7-9939	12-9531
76,290	8722	8.2	12-2113	9-7855	78,244	8863	9.1	0-4032	6-1087	79,060	9013	8.9	11-6174	11-0593
76,349	8724	9.2	12-8219	11-8357	78,190	8866	8.8	1-1041	3-0404	78,990	9017	8.9	13-9648	7-1744
76,498	8725	8.3	13-6797	16-2698	78,482	8868	9.1	1-3452	20-9879	79,045	9018	8.6	14-0581	9-0936
76,626	8730	8.9	15-0649	20-9636	78,305	8872	8.9	2-6966	8-6042	79,062	9019	8.9	14-2316	10-6947
76,106	8731	9.0	16-4541	2-9817	78,280	8873	9.5	3-0522	8-0461	79,193	9026	8.2	16-5157	17-3474
76,265	8734	8.6	17-7084	8-9341	78,430	8879	8.8	5-5436	16-8699	79,081	9031	8.3	17-5946	12-1809
					78,193	8881	8.8	5-7472	3-0311	78,933	9034	8.6	19-0441	2-7283



**20<sup>h</sup> 56<sup>m</sup> – 22<sup>h</sup> 16<sup>m</sup>**

( 267 )

Reference No.				Mag.		Standard co-ordinates, 1900-0.			
Hyd.		Algiers.				ξ'.		η'.	
R.A. 22 <sup>h</sup> 16 <sup>m</sup> (continued)									
82,855	9479	8-6	8-6570	10-8314					
82,940	9480	7-7	8-8217	19-2447					
82,898	9484	8-8	12-0181	14-0376					
82,899	9486	5-7	13-2460	14-1937					
82,800	9487	8-8	13-6010	4-4524					
82,802	9488	8-3	14-3070	4-9864					
82,785	9494	8-6	19-3707	2-4663					
82,931	9495	9-1	19-6588	17-9774					
82,901	9497	7-0	20-7102	14-2639					
82,903	9502	8-5	24-5001	14-3184					
R.A. 22 <sup>h</sup> 24 <sup>m</sup>									
83,198	9502	8-5	2-2626	14-3134					
83,246	9521	8-1	8-4407	17-5591					
83,285	9525	7-3	11-1089	19-9796					
..	9527	8-2	12-0116	0-9367					
83,259	9535	8-7	19-2641	17-8229					
83,276	9536	8-9	19-5845	18-8682					
83,209	9537	9-1	20-1941	14-3691					
R.A. 22 <sup>h</sup> 32 <sup>m</sup>									
83,438	9548	5-5	5-2371	3-6627					
83,641	9551	9-2	6-4921	20-1737					
83,474	9557	7-5	8-6891	6-4231					
83,572	9559	9-0	9-6468	15-3453					
83,562	9560	8-7	10-3960	14-2370					
83,485	9563	8-0	11-1535	8-3002					
83,563	9564	9-0	11-2603	13-6502					
83,602	9567	8-3	13-3890	16-7917					
83,455	9569	9-1	16-0937	5-2504					
83,576	9570	8-7	16-5092	15-1219					
83,432	9571	9-1	16-5727	2-6688					
83,491	9575	9-0	19-0211	7-9274					
83,447	9582	9-2	20-6351	3-7900					
83,459	9585	9-0	25-7748	4-7149					
R.A. 22 <sup>h</sup> 40 <sup>m</sup>									
83,788	9585	9-0	3-4115	4-6947					
83,807	9587	9-1	3-8056	16-5446					
83,805	9588	8-6	5-2110	6-6372					
83,829	9589	8-8	5-7943	9-4423					
83,887	9591	7-0	6-3210	15-1873					
83,781	9598	9-1	9-1705	4-2243					
83,806	9601	9-0	10-6888	6-6747					
83,914	9604	9-1	11-7866	17-1322					
83,797	9605	9-3	12-7123	5-7731					
83,778	9606	9-0	13-9040	3-2787					
83,790	9607	9-4	14-7206	5-4538					
83,821	9609	9-4	15-0666	8-0901					
83,791	9612	8-0	17-0112	4-8232					
83,916	9614	9-1	18-5207	17-5305					
83,824	9615	8-6	18-6955	7-9600					
83,893	9622	8-7	20-4781	14-8976					
83,811	9629	9-1	23-7884	7-1125					
R.A. 22 <sup>h</sup> 48 <sup>m</sup>									
84,064	9629	9-1	1-4568	7-1172					
84,143	9634	9-3	4-5373	14-3415					
84,069	9637	9-0	8-1257	6-6556					
84,164	9641	8-7	10-2129	15-8633					
84,104	9642	8-9	10-4521	9-5751					
84,195	9649	9-3	14-6052	18-6735					
84,119	9652	9-0	14-9290	11-3574					
84,061	9655	9-1	16-0689	5-5774					
R.A. 22 <sup>h</sup> 48 <sup>m</sup> (continued)									
84,132	9656	9-3	16-1307	11-9729					
84,108	9659	9-1	18-4636	9-6503					
84,013	9661	8-8	20-1306	1-7893					
84,111	9664	9-2	23-5998	9-5437					
84,007	9666	9-4	23-9065	0-4849					
84,039	9667	8-4	24-5855	3-4836					
84,219	9671	8-6	25-8078	19-8981					
R.A. 22 <sup>h</sup> 56 <sup>m</sup>									
84,369	9664	9-2	1-2999	9-5509					
84,301	9666	9-4	1-4881	0-4884					
84,322	9667	8-4	2-2063	3-4786					
84,449	9671	8-6	3-6431	19-8751					
84,370	9677	9-2	4-5778	9-7983					
84,351	9679	9-0	6-1625	6-1151					
84,433	9681	9-3	7-7922	17-7665					
84,411	9682	9-1	10-2128	14-9153					
84,345	9684	8-8	10-7771	5-2071					
84,435	9690	9-3	14-8586	17-5584					
84,310	9694	9-1	16-1022	1-8455					
84,349	9696	5-9	16-9082	5-8622					
84,320	9701	8-9	18-8156	2-7167					
84,420	9704	9-2	19-1317	15-6995					
84,330	9707	8-8	24-3226	3-1811					
R.A. 23 <sup>h</sup> 4 <sup>m</sup>									
84,572	9707	8-8	1-9395	3-1796					
84,728	9710	8-6	4-4100	18-7501					
84,668	9712	8-7	6-2436	12-9447					
84,560	9715	9-3	6-6529	1-1401					
84,568	9716	9-1	9-4659	2-6107					
84,688	9718	8-9	16-0861	14-7501					
84,593	9723	9-4	11-9008	5-8354					
84,634	9724	3-9	13-3210	9-5837					
84,613	9733	8-3	17-2927	7-7284					
84,691	9735	8-9	17-5006	14-7467					
84,614	9738	9-0	19-3689	7-5628					
84,698	9740	8-7	19-6434	16-3559					
84,628	9744	9-4	21-9044	8-9032					
84,570	9749	9-2	22-4276	2-3405					
84,741	9747	8-7	22-5767	18-8157					
R.A. 23 <sup>h</sup> 12 <sup>m</sup>									
..	9746	9-2	0-0336	2-3627					
85,063	9747	8-7	0-3982	18-8360					
85,016	9754	8-8	5-5845	14-7046					
85,087	9755	9-2	6-1078	21-2639					
85,088	9756	9-1	6-4341	21-0632					
84,866	9758	9-3	7-4352	1-6844					
85,057	9759	9-0	8-3871	17-7418					
84,981	9760	8-8	8-4067	11-4562					
84,961	9764	8-0	11-0418	9-7554					
84,962	9766	7-7	11-6862	9-9705					
84,890	9769	8-1	12-5889	3-7668					
85,096	9776	8-9	17-2276	21-1608					
84,895	9780	8-9	19-3477	4-0155					
84,937	9781	9-2	21-3695	6-8920					
84,923	9787	9-0	24-3067	5-7995					
R.A. 23 <sup>h</sup> 20 <sup>m</sup>									
85,247	9787	9-0	1-9578	5-7888					
85,329	9794	8-4	6-5684	13-9829					
85,306	9796	8-9	6-6697	11-3704					
R.A. 23 <sup>h</sup> 20 <sup>m</sup> (continued)									
85,363	9799	6-6	9-6701	16-8577					
85,271	9803	8-5	10-7529	8-0254					
85,202	9806	8-5	11-2018	0-2707					
85,384	9807	8-8	11-2574	19-3638					
85,319	9808	8-2	11-6592	12-9052					
85,350	9812	9-0	13-7740	15-4819					
85,221	9813	8-0	14-7520	2-9285					
85,233	9814	5-5	15-2207	3-2782					
85,321	9816	9-1	15-7170	12-7712					
85,322	9817	8-7	16-5052	9-8868					
85,366	9818	6-8	16-6628	10-4967					
85,293	9819	9-0	17-9867	10-2495					
85,244	9821	8-7	18-4000	4-6341					
85,215	9826	8-9	22-0667	1-2399					
85,328	9827	8-8	22-5159	13-2523					
85,223	9833	8-3	26-0451	2-5747					
R.A. 23 <sup>h</sup> 28 <sup>m</sup>									
85,586	9827	8-8	0-2646	13-2735					
85,473	9833	8-3	3-6533	2-5515					
85,660	9835	7-8	4-7046	18-2425					
85,672	9836	8-3	5-3963	19-7347					
85,573	9840	7-0	8-7093	12-0604					
85,557	9841	8-0	9-0186	10-6190					
85,632	9842	8-7	9-9581	17-2626					
85,612	9845	8-6	11-8957	15-8777					
85,515	9850	4-6	13-1242	6-6601					
85,537	9856	9-2	17-7620	8-8380					
85,639	9859	9-1	16-9028	16-9395					
85,651	9860	9-2	18-0067	17-9336					
85,619	9862	9-1	20-0282	16-4935					
85,604	9865	8-9	20-5552	15-3649					
85,622	9867	9-0	23-6008	15-7901					
85,472	9870	9-1	25-4296	1-7465					
R.A. 23 <sup>h</sup> 36 <sup>m</sup>									
85,906	9867	9-0	1-3826	15-7969					
85,860	9870	9-3	3-0276	1-7311					
85,910	9872	8-7	5-3501	15-7281					
85,842	9873	7-7	5-9626	6-6681					
85,877	9874	9-1	6-5055	11-4699					
85,943	9875	8-0	7-5831	18-7499					
85,817	9877	9-3	8-1559	2-3848					
85,809	9884	8-9	13-3053	1-2251					
85,803	9892	8-4	18-8769	8-7476					
85,915	9893	8-7	19-1013	16-1514					
85,962	9895	9-8	20-4913	20-4987					

-22°.

## STANDARD CO-ORDINATES.

23<sup>h</sup> 44<sup>m</sup>—23<sup>h</sup> 52<sup>m</sup>

Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.		Reference No.		Mag.	Standard co-ordinates, 1900-0.	
Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.	Hyd.	Algiers.		ξ'.	η'.
<b>R.A. 23<sup>h</sup> 44<sup>m</sup> (continued)</b>					<b>R.A. 23<sup>h</sup> 52<sup>m</sup> (continued)</b>					<b>R.A. 23<sup>h</sup> 52<sup>m</sup> (continued)</b>				
86,162	9936	8.7	23.4850	13.4655	86,382	9946	7.6	7.4899	12.2309	86,447	9963	8.8	15.7629	18.4955
86,068	9939	7.5	25.5619	1.9186	86,411	9947	9.3	7.6533	15.2345	86,449	9965	9.0	16.5078	18.4765
86,183	9940	9.2	25.7055	15.1621	86,347	9950	7.9	8.6267	7.1306	86,326	9970	8.5	18.5067	3.2018
<b>R.A. 23<sup>h</sup> 52<sup>m</sup></b>					86,311	9951	9.1	9.6909	1.2709	86,356	9972	9.3	19.3155	7.0372
86,398	9936	8.7	1.2364	13.4737	86,457	9952	7.4	10.1452	19.5909	86,357	9978	9.1	21.1380	6.6530
86,307	9939	7.5	3.1620	1.9014	86,413	9956	9.1	11.4517	15.1277	86,304	9981	9.0	23.6336	0.7962
86,408	9940	9.2	3.4789	15.1412	86,341	9960	6.9	13.0796	5.6804	86,327	9982	8.5	24.2735	4.1902
					86,419	9962	8.8	13.9448	15.4386	86,397	9983	9.1	24.4080	12.5684











